

2

11

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16

chain bonds :

9-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-16 13-14 14-15
15-16

exact/norm bonds :

5-7 6-10 7-8 8-9 9-10 9-11 12-13 12-16 13-14 14-15 15-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

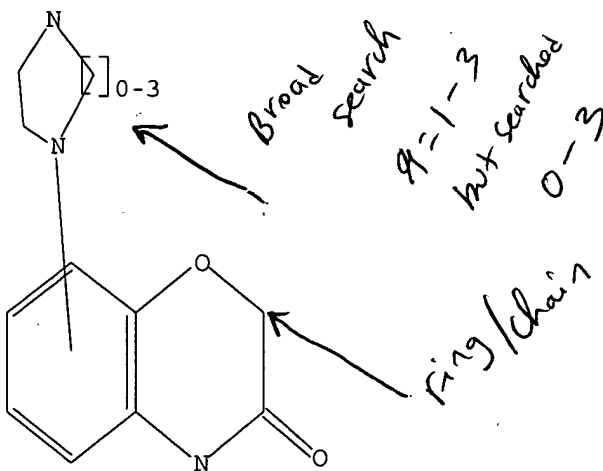
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 19:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 16:10:34 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 313 TO ITERATE

100.0% PROCESSED 313 ITERATIONS

14 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 5199 TO 7321

PROJECTED ANSWERS: 56 TO 504

<03/01/2005>

Hatte

L2 14 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:10:42 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 6120 TO ITERATE

100.0% PROCESSED 6120 ITERATIONS

247 ANSWERS

SEARCH TIME: 00.00.01

L3 247 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

161.54

FILE 'CAPLUS' ENTERED AT 16:10:47 ON 01 MAR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 1 Mar 2005 VOL 142 ISS 10

FILE LAST UPDATED: 28 Feb 2005 (20050228/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 35 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:392319 CAPLUS

DOCUMENT NUMBER: 140:406825

TITLE: Preparation of substituted benzoxazinones as selective 5-HT6 antagonists for treating central nervous system diseases and gastrointestinal tract disorders

INVENTOR(S): Maag, Hans; Sui, Meng; Zhao, Shu-hai

PATENT ASSIGNEE(S): Roche Palo Alto Llc, USA

SOURCE: U.S. Pat. Appl. Publ., 40 pp.

CODEN: USXXCO

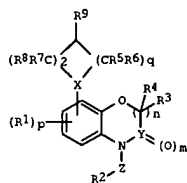
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004092512	A1	20040513	US 2003-702302	20031106
WO 2004041792	A1	20040521	WO 2003-071278	20031104
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, T, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, ML, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPL. INFO.:		MARPAT 140:406825 US 2002-424946P P 20021108		
OTHER SOURCE(S):				
GI				

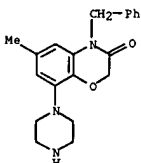


AB The invention provides compds. of the formula (I) or pharmaceutically acceptable salts or prodrugs thereof [Y = C, S; n = 1 when Y = C and m = 2 when Y = S; n = 1, 2; p = 0-3; q = 1-3; Z = (CRaRb)r or SO2 (where Ra, Rb = H, alkyl); r = 0-2; X = CH, N; R1 = halo, alkyl, haloalkyl, heteroalkyl,

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of substituted benzoxazinones as selective 5-HT6 antagonists for treating central nervous system diseases and gastrointestinal tract disorders)

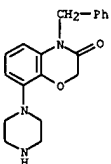
RN 688363-68-0 CAPLUS

CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-(9CI) (CA INDEX NAME)



RN 688363-69-1 CAPLUS

CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)-(9CI) (CA INDEX NAME)



IT 688363-00-0P, 4-Benzyl-6-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-01-1P, 4-Benzyl-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-02-2P, 4-(2-Fluorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-03-3P, 4-(2-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-04-4P, 4-(3-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-05-5P, 4-Benzyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-06-6P, 4-Benzyl-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-07-7P, 4-(2-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-08-8P, 4-(4-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-09-9P, 4-(4-Chlorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-10-2P, 4-(4-Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
alkoxy, cyano, S(O)Rc, CONRcRd, SO2NRcRd, N(Rc)CORd, or CORc (where Rc, Rd = H, alkyl); s = 0-2; R2 = aryl, heteroaryl; R3, R4 = H, alkyl, hydroxyalkyl, or alkoxyalkyl, or R3 and R4 together with their shared carbon may form a ring of 3 to 6 members that optionally includes a N or O heteroatom; R5-R9 = H or alkyl, or one of R5 and R6 together with one of R7, R8 and R9 and the atoms there between may form a ring of 5 to 7 members]. These compds. exhibit selective affinity for 5-HT6 receptor and are used as selective 5-HT6 antagonists for treating (a) a central nervous system disease state which is selected from psychoses, schizophrenia, manic depression, neurol. disorders, memory disorders, attention deficit disorder, Parkinson's disease, amyotrophic lateral sclerosis, Alzheimer's disease and Huntington's disease and (b) a disorder of the gastrointestinal tract. Thus, amination of 4-benzyl-8-bromo-2,2-dimethyl-4H-benzo[1,4]oxazin-3-one with 1-tert-butoxycarbonylaminopiperazine in the presence of Pd2(dba)3, BINAP, and sodium tert-butoxide in toluene at 95-100° followed by treatment with HCl/EtOH gave 4-benzyl-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one (II) hydrochloride. Free amine II and 4-(2-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one inhibited the binding of [3H]LSD to human 5-HT6 receptor with pKi of 9.13 and 9.04, resp.

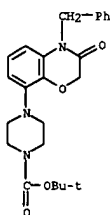
IT 688363-65-7P, 4-(4-Benzyl-3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-8-yl)piperazine-1-carboxylic acid tert-butyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

5-HT6 (intermediate; preparation of substituted benzoxazinones as selective

antagonists for treating central nervous system diseases and gastrointestinal tract disorders)

RN 688363-65-7 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[3,4-dihydro-3-oxo-4-(phenylmethyl)-2H-1,4-benzoxazin-8-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 688363-68-0P, 4-Benzyl-6-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one 688363-69-1P, 4-Benzyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

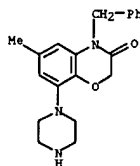
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
hydrochloride 688363-11-3P, 4-(2-Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-12-4P, 4-(2-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-13-5P, 4-(4-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-14-6P, 6-Fluoro-4-[(naphthalen-2-yl)methyl]-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-15-7P, 4-(3-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-16-8P, 3-[(3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]benzonitrile hydrochloride 688363-17-9P, 4-(3-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-18-0P, 4-Benzyl-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-19-1P, (R)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-20-4P, 4-Benzyl-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-21-5P, 4-(4-Fluorobenzyl)-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-22-6P, (S)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-23-7P, 8-(Piperazin-1-yl)-4-[(pyridin-4-yl)methyl]-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-24-8P, 4-Benzyl-6-methyl-8-(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-25-9P, 4-Benzyl-8-(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-26-0P, 4-(1-Phenylethyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-27-1P, 4-(3-Methoxybenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-28-2P, 4-(3-Nitrobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-29-3P, 4-(3-Aminobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-30-6P, 4-[(3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]benzonitrile hydrochloride 688363-31-7P, N-[3-[(3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]phenyl]methanesulfonamide hydrochloride 688363-32-8P, 4-(4-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-33-9P, 4-(3-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-34-0P, [3-[(3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl)methyl]phenyl]urea hydrochloride 688363-35-1P, 4-(3-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-36-2P, 4-Benzyl-8-(3,5-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-37-3P, 4-(4-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-38-4P, 4-Benzyl-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-39-5P, 4-(4-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-40-6P, 6-Fluoro-4-(3-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-41-7P, 6-Fluoro-4-(4-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-42-8P, 4-(3-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-43-1P, 4-Benzyl-8-(3,3-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-44-2P, 4-Benzyl-8-(3,3-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one hydrochloride 688363-45-4P 688363-67-9P,

<03/01/2005>

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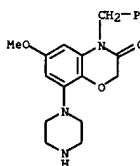
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 4-Benzyl-6-methyl-8-[(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-70-4P, 4-Benzyl-8-[(4-methylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-71-5P, 4-Benzyl-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-03-9P, 4-(2-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-84-0P, 4-(2-Fluorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-85-1P, (S)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-86-2P, 4-(3-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-87-3P, 4-Benzyl-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-88-4P, 4-(2-Fluorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-89-5P, 4-(2-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-90-8P, 4-(3-Chlorobenzyl)-6-methoxy-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
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688363-97-5P, 6-Fluoro-4-[(naphthalen-2-yl)methyl]-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-98-6P, 4-(3-Chlorobenzyl)-6-fluoro-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688363-99-7P, 3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl]methyl]benzotriazole
688364-00-3P, 4-(3-Fluorobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-01-4P, (R)-4-Benzyl-2-methyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-02-5P, 4-Benzyl-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-03-6P, 4-(4-Fluorobenzyl)-6-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-04-7P, 8-(Piperazin-1-yl)-4-[(pyridin-4-yl)methyl]-4H-benzo[1,4]oxazin-3-one
688364-05-8P, 4-(1-Phenylethyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-06-9P, 4-(3-Methoxybenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-07-0P, 4-(3-Nitrobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-08-1P, 4-(3-Aminobenzyl)-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-09-2P, N-[3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl]methyl]phenyl]methanesulfonamide
688364-10-5P, 4-(4-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-11-6P, 4-(3-Fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-12-7P, 3-[[3-Oxo-8-(piperazin-1-yl)-2,3-dihydrobenzo[1,4]oxazin-4-yl]methyl]phenyl]urea
688364-13-8P, 4-Benzyl-8-(3,5-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-14-9P, 4-(4-Chlorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-15-0P, 4-Benzyl-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-16-1P, 4-(4-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-17-2P, 6-Fluoro-4-(3-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-18-3P, 6-Fluoro-4-(2-fluorobenzyl)-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-19-4P, 6-Fluoro-4-(4-fluorobenzyl)-2,2-dimethyl-8-

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 (piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one **688364-20-7P**, 4-(3-Chlorobenzyl)-6-fluoro-2,2-dimethyl-8-(piperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-21-8P, 4-Benzyl-8-(3,3-dimethylpiperazin-1-yl)-4H-benzo[1,4]oxazin-3-one
688364-22-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 [prepn. of substituted benzoxazinones as selective 5-HT₆ antagonists for treating central nervous system diseases and gastrointestinal tract disorders]
 RN 688363-00-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



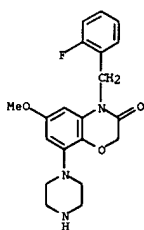
● HCl

RN 688363-01-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methoxy-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



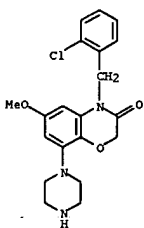
● HCl

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 688363-02-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

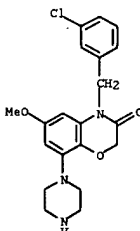
RN 688363-03-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

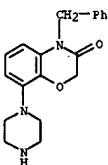
RN 688363-04-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



● HCl

RN 688363-05-5 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

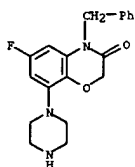


● HCl

RN 688363-06-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

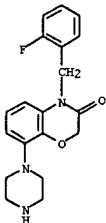
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Habte



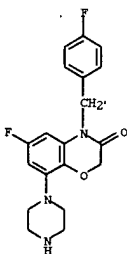
● HCl

RN 688363-07-7 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



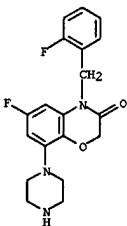
● HCl

RN 688363-08-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



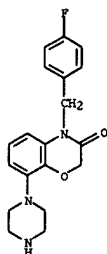
● HCl

RN 688363-11-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



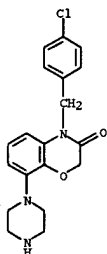
● HCl

RN 688363-12-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



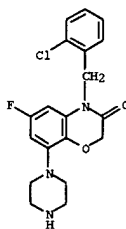
● HCl

RN 688363-09-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



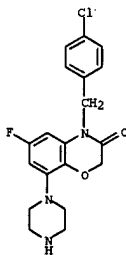
● HCl

RN 688363-10-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



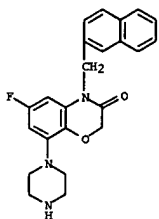
● HCl

RN 688363-13-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



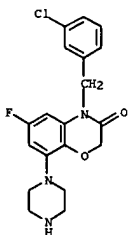
● HCl

RN 688363-14-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-naphthalenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



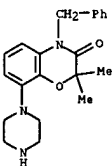
● HCl

RN 688363-15-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

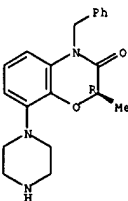
RN 688363-16-8 CAPLUS
 CN Benzonitrile, 3-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

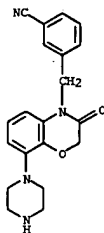
RN 688363-19-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



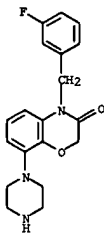
● HCl

RN 688363-20-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-6-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



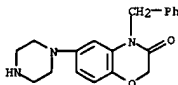
● HCl

RN 688363-17-9 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



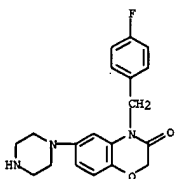
● HCl

RN 688363-18-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

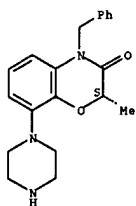
RN 688363-21-5 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-6-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

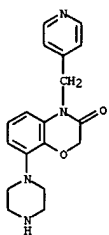
RN 688363-22-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



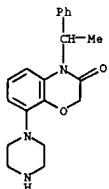
● HCl

RN 688363-23-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)-4-(4-pyridinylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



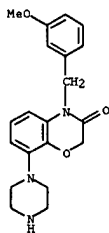
● HCl

RN 688363-24-8 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



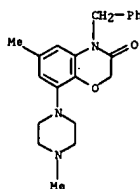
● HCl

RN 688363-27-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-methoxyphenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



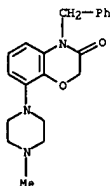
● HCl

RN 688363-28-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-nitrophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



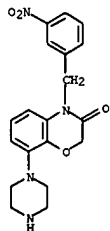
● HCl

RN 688363-25-9 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



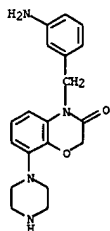
● HCl

RN 688363-26-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(1-phenylethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



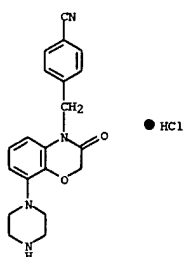
● HCl

RN 688363-29-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-aminophenyl)methyl]-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

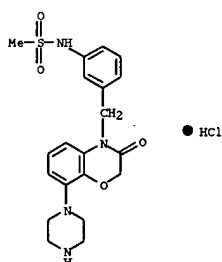


● HCl

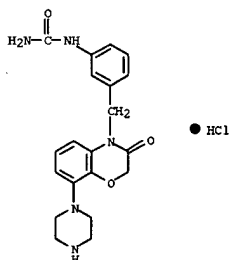
RN 688363-30-6 CAPLUS
 CN Benzonitrile, 4-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



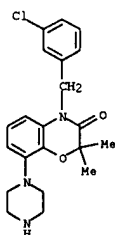
RN 688363-31-7 CAPLUS
CN Methanesulfonamide, N-[3-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



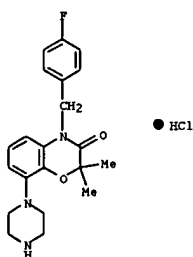
RN 688363-32-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



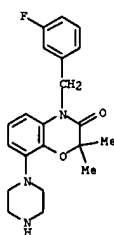
RN 688363-35-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



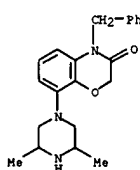
RN 688363-36-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,5-dimethyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



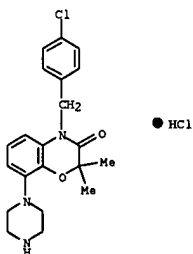
RN 688363-33-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



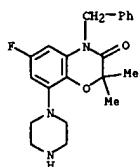
RN 688363-34-0 CAPLUS
CN Urea, [3-[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



RN 688363-37-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

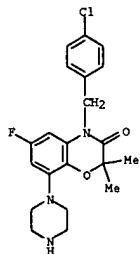


RN 688363-38-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



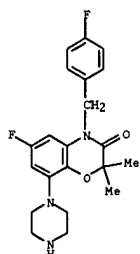
● HCl

RN 688363-39-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-((4-chlorophenyl)methyl)-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



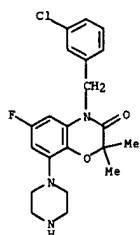
● HCl

RN 688363-40-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



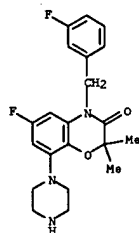
● HCl

RN 688363-43-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



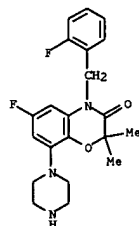
● HCl

RN 688363-44-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,3-dimethyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)



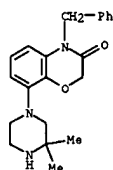
● HCl

RN 688363-41-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



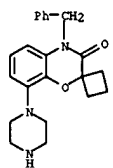
● HCl

RN 688363-42-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

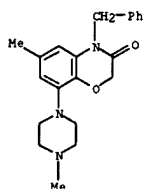
RN 688363-46-4 CAPLUS
CN Spiro[2H-1,4-benzoxazine-2,1'-cyclobutan]-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



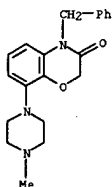
● HCl

RN 688363-67-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methyl-8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

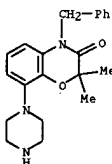
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



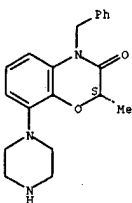
RN 688363-70-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(4-methyl-1-piperazinyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



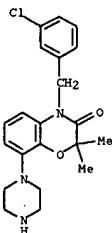
RN 688363-71-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



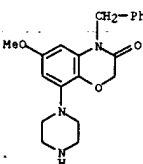
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 688363-86-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



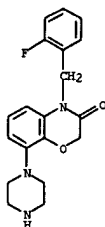
RN 688363-87-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-methoxy-4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



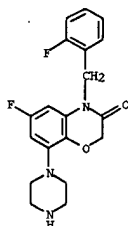
<03/01/2005>

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 688363-83-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688363-84-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

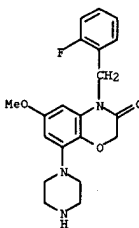


RN 688363-85-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)-, (2S)- (9CI) (CA INDEX NAME)

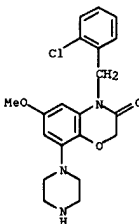
Absolute stereochemistry.

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 688363-88-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-fluorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

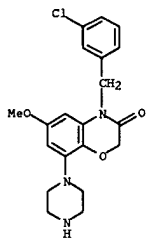


RN 688363-89-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

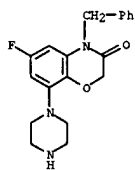


RN 688363-90-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-methoxy-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

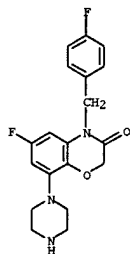
Habte



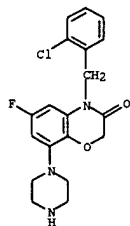
RN 688363-91-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-(phenylmethyl)-8-(1-piperazinyl)-
(9CI) (CA INDEX NAME)



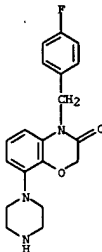
RN 688363-92-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)-
(9CI) (CA INDEX NAME)



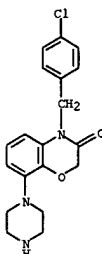
RN 688363-95-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(2-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



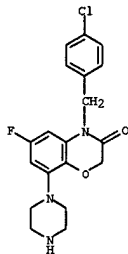
RN 688363-96-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



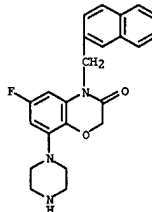
RN 688363-93-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-8-(1-piperazinyl)-
(9CI) (CA INDEX NAME)



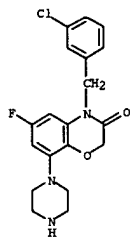
RN 688363-94-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



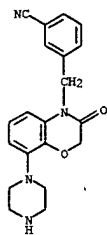
RN 688363-97-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-(2-naphthalenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688363-98-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

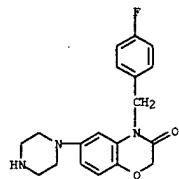


RN 688363-99-7 CAPLUS
CN Benzonitrile, 3-[[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl]methyl]- (9CI) (CA INDEX NAME)

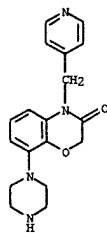


RN 688364-00-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

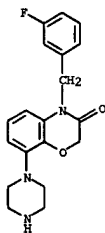
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 688364-04-7 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

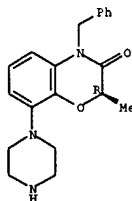


RN 688364-05-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(1-phenylethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

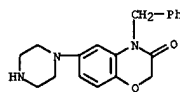


RN 688364-01-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-4-(phenylmethyl)-8-(1-piperazinyl)- (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

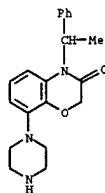


RN 688364-02-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-(phenylmethyl)-6-(1-piperazinyl)- (9CI) (CA INDEX NAME)

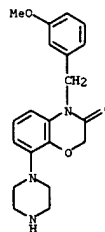


RN 688364-03-6 CAPLUS

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

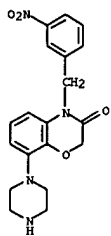


RN 688364-06-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-methoxyphenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

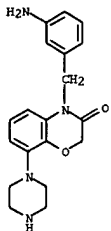


RN 688364-07-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-nitrophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

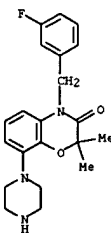


RN 688364-08-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-aminophenyl)methyl]-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

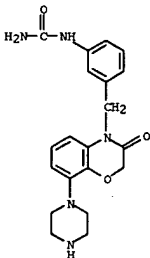


RN 688364-09-2 CAPLUS
CN Methanesulfonamide, N-[[3-[(2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl)methyl]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

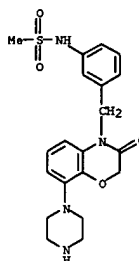


RN 688364-12-7 CAPLUS
CN Urea, [3-[[[2,3-dihydro-3-oxo-8-(1-piperazinyl)-4H-1,4-benzoxazin-4-yl)methyl]phenyl]- (9CI) (CA INDEX NAME)

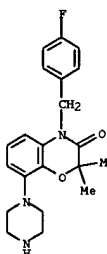


RN 688364-13-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,5-dimethyl-1-piperazinyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

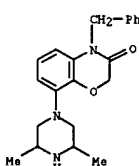


RN 688364-10-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

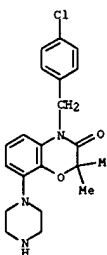


RN 688364-11-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

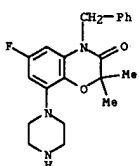
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



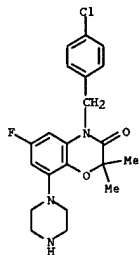
RN 688364-14-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



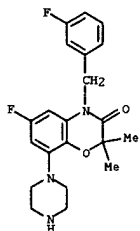
RN 688364-15-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-2,2-dimethyl-4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 688364-16-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(4-chlorophenyl)methyl]-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

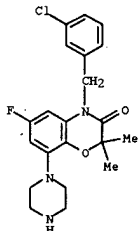


RN 688364-17-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(3-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

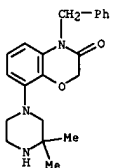


RN 688364-18-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(2-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

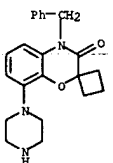
L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



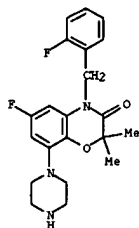
RN 688364-21-8 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(3,3-dimethyl-1-piperazinyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)



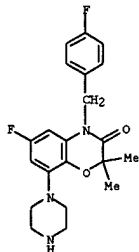
RN 688364-22-9 CAPLUS
 CN Spiro[2H-1,4-benzoxazine-2,1'-cyclobutan]-3(4H)-one, 4-(phenylmethyl)-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 688364-19-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-fluoro-4-[(4-fluorophenyl)methyl]-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



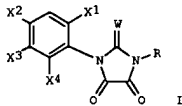
RN 688364-20-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[(3-chlorophenyl)methyl]-6-fluoro-2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:142766 CAPLUS
 DOCUMENT NUMBER: 138:153531
 TITLE: Preparation of imidazolinetrione derivatives as herbicides
 INVENTOR(S): Li, Bin; Xu, Jidong; Mang, Ying; Zhang, Zongjian
 PATENT ASSIGNEE(S): Shenyang Chemical Institute, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.
 CODEN: CNXKEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1325849	A	20011212	CN 2000-110477	20000530
CN 1118466	B	20030820		

PRIORITY APPLN. INFO.: CN 2000-110477 20000530
 OTHER SOURCE(S): MARPAT 138:153531
 GI



AB Title compds. I (R = H, alkyl; W = O, S; X1, X4 = H, halo; X2 = halo, cyano, nitro, etc.; X3 = alkyl, alkoxy, alkenyloxy, alkynyloxy, etc.), useful as herbicides, are prepared. I (R = MeOCH2, W = O, X1 = F, X2 = Cl, X3 = cyclopentyl, X4 = H) was prepared in several steps from 2-fluoro-4-chloro-5-cyclopentylmethoxyaniline and showed herbicidal activity against Polygonum lapathifolium at 1200 g/ha.

IT 374718-07-7P 374718-08-8P 374718-09-9P
 374718-10-2P 374718-11-3P 374718-13-5P
 374718-14-6P 374718-16-8P 494869-07-7P
 494869-11-3P

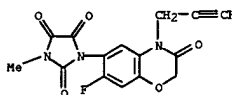
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of imidazolinetrione derivs. as herbicides)

RN 374718-07-7 CAPLUS

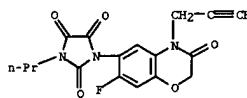
CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



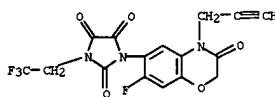
RN 374718-08-8 CAPLUS

CN Imidazolidinedione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]propyl- (9CI) (CA INDEX NAME)



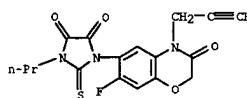
RN 374718-09-9 CAPLUS

CN Imidazolidinedione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl](2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)



RN 374718-10-2 CAPLUS

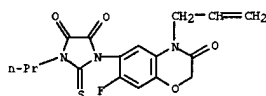
CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



RN 374718-11-3 CAPLUS

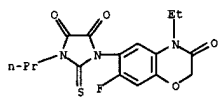
CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



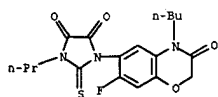
RN 374718-13-5 CAPLUS

CN 4,5-Imidazolidinedione, 1-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



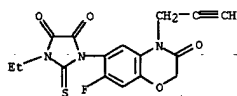
RN 374718-14-6 CAPLUS

CN 4,5-Imidazolidinedione, 1-(4-butyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



RN 374718-16-8 CAPLUS

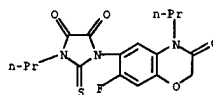
CN 4,5-Imidazolidinedione, 1-ethyl-3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-2-thioxo- (9CI) (CA INDEX NAME)



RN 494869-07-7 CAPLUS

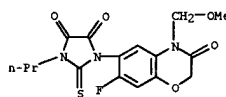
CN 4,5-Imidazolidinedione, 1-(7-fluoro-3,4-dihydro-3-oxo-4-propyl-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



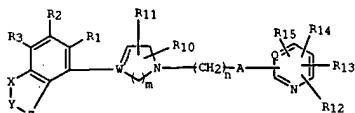
RN 494869-11-3 CAPLUS

CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-4-(methoxymethyl)-3-oxo-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 2003:22870 CAPLUS
DOCUMENT NUMBER: 138:89820
TITLE: Preparation of heteroaryl derivatives as 5-HT1A antagonists, potent serotonin reuptake inhibitors, and which show affinity for the dopamine D4 receptor
INVENTOR(S): Rottlaender, Marco; Holtzen, Ejner Knud; Mikkelsen, Ivan; Ruhland, Thomas; Andersen, Kim; Krog-Jensen, Christian
PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 200302556	A1	20030109	AZ 2002-DK435	20020627
W: AE, AG, AL, AM, AT, AU, AW, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, LU, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, OC, OM, PA, PE, PG, PH, PT, RU, SD, SE, SG, SI, SK, SL, SN, TJ, TM, TN, TR, TT, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
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GW 200302556	A1	20030109	AZ 2002-DK435	20020627
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EP 1399438	A1	200400324	EP 2002-742849	20020627
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002010401	A1	20040817	BR 2002-10401	20020627
JP 2004535449	T2	20041125	JP 2003-58937	20020627
US 2004248883	A1	20041209	US 2004-482764	20040706
PRIORITY APPLN. INFO.:			DK 2001-1036	A 20010629
			WO 2002-DK435	W 20020627
OTHER SOURCE(S):	MARPAT 138:8920			
GI				

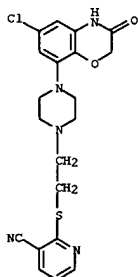


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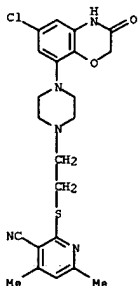
L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB	<p>Heteroaryl derivs. (I) wherein A = O, S; n = 2, 3, 4, 5, 6, 7, 8, 9, 10; m = 2, 3; W, Q, independently = N, C, CH₃ X = C, amino, S, CR₆RS; Y = CR₆R7, CR₆R7-CR₆R8, CR₆R7-CR, COCR₆R7 or X and Y together form a group CR₄CR₅, CR₄CR₅-CR₆R7; Z = O, S; R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, independently = H, (C1-C6)alkyl, (C2-C6)alkenyl, (C2-C6)alkynyl, (C3-C8) cycloalkyl-(C1-C6)alkyl, aryl(C1-C6)alkyl, acyl, etc.; R10, R11, independently = H, (C1-C6)alkyl, or may together form a bridge consisting of two or three additional groups; R12, R13, R14, R15, H, hal, cyano, nitro, hydroxy, (C1-C6)alkyl, (C1-C6)alkoxy, etc.] were prepared. For example, 4,6-dimethyl-2-(2-oxoethylsulfonyl)nicotinonitrile (synthetic preparation given) is reacted with 4-(2,3-dihydrobenzo[1,4]dioxin-5-yl)piperazine to give 2-(2-[4-(2,3-dihydrobenzo[1,4]dioxin-5-yl)piperazin-1-yl]ethylsulfonyl)-6-methylnicotinonitrile (II). The prepared compds. are potent serotonin reuptake inhibitors and exhibit high affinity for 5-HT1A receptors and 5-HT2A receptor and, thus, may be used for the treatment of affective disorders such as general anxiety disorder, panic disorder, obsessive compulsive disorder, depression, social phobia and eating disorders, and neurol. disorders such as psychosis. For example, compound II showed good inhibition of 3H-5-HT uptake into rat brain synaptosomes (IC50 < 20 nM).</p>
IT	<p>480301-12-1P 480301-14-3P 480301-16-5P 480301-17-6P 480301-19-9P 480301-20-1P 480301-22-3P 480301-24-5P</p> <p>RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)</p> <p>(preparation of benzodioxinyl piperaziny heteroaryl derivs. as 5-HT1A antagonists, potent serotonin reuptake inhibitors, and which show affinity for dopamine D₂ receptor)</p>
RN	480301-12-1 CAPUIS
CN	<p>3-Pyridinecarbinol, 2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]- (9CI) (CA INDEX NAME)</p>

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

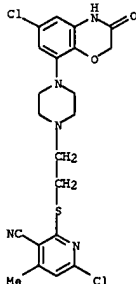


RN 484031-14-3 CAPLUS
CN 3-Pyridinecarbonitrile, 2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-4,6-dimethyl- (9CI) (CA INDEX NAME)

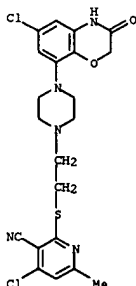


RN 484031-16-5 CAPLUS
CN 3-Pyridinecarbonitrile, 6-chloro-2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

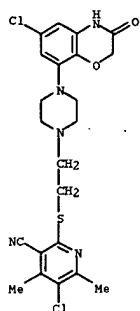


RN 484031-17-6 CAPLUS
CN 3-Pyridinecarbonitrile, 4-chloro-2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-6-methyl- (9CI) (CA INDEX NAME)

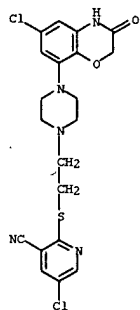


RN 484031-19-8 CAPLUS
CN 3-Pyridinecarbonitrile, 5-chloro-2-[[2-[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-4,6-dimethyl- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 484031-20-1 CAPLUS
CN 3-Pyridinecarbonitrile, 5-chloro-2-[[2-[[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]- (9CI) (CA INDEX NAME)



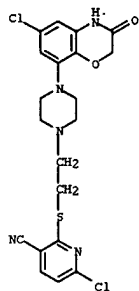
RN 484031-22-3 CAPLUS

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

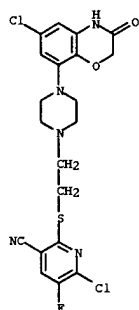
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN 3-Pyridinecarbonitrile, 6-chloro-2-[[2-[[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]- (9CI) (CA INDEX NAME)



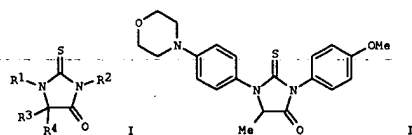
RN 484031-24-5 CAPLUS
CN 3-Pyridinecarbonitrile, 6-chloro-2-[[2-[[4-(6-chloro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]ethyl]thio]-5-fluoro- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

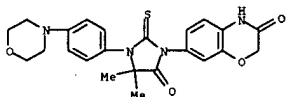
ACCESSION NUMBER: 2002:793608 CAPLUS
DOCUMENT NUMBER: 137:310917
TITLE: Aromatic-substituted thiohydantoin, their preparation, and their use for treating diabetes, dyslipidemia, and obesity
INVENTOR(S): Boubia, Benaïssa; Chaput, Evelyn; Ou, Khan; Ratel, Philippe
PATENT ASSIGNEE(S): Laboratoires Fournier SA, Fr.
SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081453	A1	20021017	WO 2002-FR1167	20020404
WO 2002081453	C1	20021114		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FR, GB, GD, GE, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2823209	A1	20021011	FR 2001-4552	20010404
FR 2823209	B1	20031212		
CA 2444024	AA	20021017	CA 2002-2444024	20020404
EP 1373219	A1	20040102	EP 2002-730333	20020404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
EE 200300485	A	20040216	EE 2003-485	20020404
BR 2002007910	A	20040803	BR 2002-7910	20020404
JP 2004525175	T2	20040819	JP 2002-579441	20020404
US 2004116417	A1	20040617	US 2003-473032	20030926
NO 2003004430	A	20031006	NO 2003-4430	20031003
PRIORITY APPL. INFO.: FR 2001-4552 A 20010404				
OTHER SOURCE(S): MARPAT 137:310917				
G1				



AB The invention concerns compds. derived from 2-thiohydantoin, selected among compds. I [R1 = (un)substituted aromatic nucleus [substituents = halo, alkoxy, alkyl, alkylthio, NO2, CF3, OCF3, OCH2O, or (un)substituted

- L4 ANSWER 4 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(hom) (thio)morpholine, (hom)piperidine, (hom)piperazine, etc.; R2 = H, alkyl or cycloalkyl [optionally interrupted by O atom(s)], haloalkyl, alkenyl, alkynyl, hydroxyalkyl, aminoalkyl, cyanoalkyl, (un)substituted arom. nucleus; R3 = H, alkyl; R4 = H, alkyl, OH or R3R4 = CH2; provided that at least one of R1 and R2 is an arom. nucleus bearing at least one (un)substituted (hom) (thio)morpholine, (hom)piperidine, (hom)piperazine, etc.] and their addn. salts with acids, in particular their pharmaceutically acceptable salts. The invention also concerns methods for prep. 1, pharmacol. compns. contg. them, and their use as pharmacol. active substances, in particular for treating diabetes, diseases mediated by hyperglycemia, hypertriglyceridemia, dyslipidemia, or obesity. A total of 390 invention compds. and approx. 80 intermediates were prep'd. and characterized. When tested orally in mice at doses below 200 mg/kg, I reduced glucose levels by up to -73%, and reduced serum triglycerides by up to -56%, with favorable changes in lipid parameters (no specific data). For instance, 4-(4-morpholinyl)aniline reacted with Et 2-bromopropionate and NaOAc in EtOH to give 69% N-[4-(4-morpholinyl)phenyl]-DL-alanine Et ester. Cyclocondensation of this amino ester with 4-(isothiocyanato)aniline in refluxing toluene in the presence of AcOH gave 82.5% title compd. II.
- IT 471937-62-9P, 1-(4-(Morpholin-4-yl)phenyl)-3-(3-oxo-2,3-dihydro-4H-1,4-benzoxazin-7-yl)-5,5-dimethyl-2-thioxo-4-imidazolidinone
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Drug candidate; preparation of aromatic-substituted thiohydantoin for treatment of diabetes, dyslipidemia, and obesity)
- RN 471937-62-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 7-[(4,4-dimethyl-3-[(4-(4-morpholinyl)phenyl]-5-oxo-2-thioxo-1-imidazolidinyl)-(9CI) (CA INDEX NAME)

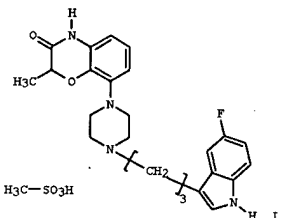


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

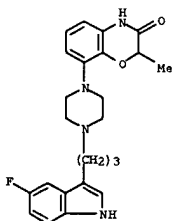
- L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:658119 CAPLUS
DOCUMENT NUMBER: 137:201320
TITLE: Preparation of a piperazinyl-2-methyl-2H-1,4-benzoxazin-3(4H)-one methanesulfonate with high affinity for the dopamine D2 receptor and the serotonin-reuptake site
INVENTOR(S): Bakker, Cornelis
PATENT ASSIGNEE(S): Solvay Pharmaceuticals B.V., Neth.
SOURCE: PCT Int. Appl., 9 pp.
CODEN: PIKXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066473	A1	20020829	WO 2002-EP1795	20020219
WO 2002066473	C1	20040129		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TA, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2430707	AA	20020829	CA 2002-2430707	20020219
BR 2002006162	A	20031028	BR 2002-6162	20020219
EP 1366044	A1	20031203	EP 2002-719880	20020219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004518747	T2	20040624	JP 2002-565987	20020219
US 2004024207	A1	20040205	US 2003-432225	20030522
NO 2003002914	A	20030624	NO 2003-2914	20030624
PRIORITY AFFIL. INFO.:				
			EP 2001-200610	A 20010221
			WO 2002-EP1795	W 20020219
OTHER SOURCE(S): CASREACT 137:201320				
GI				

- L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



- AB The title compound (I), which is useful in the treatment of CNS disorders, is prepared by the salification of the I free base with methanesulfonic acid.
- IT 452305-55-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(in the preparation of a piperazinyl-2-methyl-2H-1,4-benzoxazin-3(4H)-one methanesulfonate with high affinity for the dopamine D2 receptor and the serotonin-reuptake site)
- RN 452305-55-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[(4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-(9CI) (CA INDEX NAME)

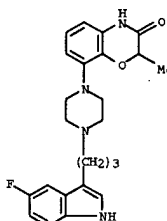


- IT 452305-56-5P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of a piperazinyl-2-methyl-2H-1,4-benzoxazin-3(4H)-one methanesulfonate with high affinity for the dopamine D2 receptor and the serotonin-reuptake site)
- RN 452305-56-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[(4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, monomethanesulfonate (9CI) (CA INDEX NAME)

<03/01/2005>

- L4 ANSWER 5 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CM 1
CRN 452305-55-4
CMF C24 H27 F N4 O2



CM 2
CRN 75-75-2
CMF C H4 O3 S



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:332196 CAPLUS

DOCUMENT NUMBER: 136:355241

TITLE: Preparation of benzoxazinones as antidepressants and anxiolytics

INVENTOR(S): Johnson, Christopher Norbert; Rami, Harshad Kantilal; Stemp, Geoffrey; Thewlis, Kevin; Thompson, Mervyn;

Vong, Antonio Kuok Keong

PATENT ASSIGNEE(S): Smithkline Beecham P.L.C., UK

SOURCE: PCT Int. Appl., 97 pp.

CODEN: PIXX02

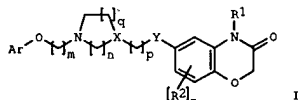
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

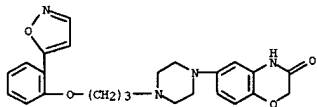
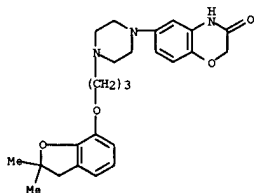
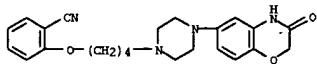
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034754	A2	20020502	WO 2001-EP12344	20011022
WO 2002034754	A3	20020711		
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CA 2426706	AA	20020502	CA 2001-2426706	20011022
AU 2002024791	A5	20020506	AU 2002-24791	20011022
EP 1330460	A2	20030730	EP 2001-988720	20011022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014881	A	20030930	BR 2001-14881	20011022
JP 2004516250	T2	20040603	JP 2002-537744	20011022
ZA 2003003118	A	20040428	ZA 2003-3118	20030423
NO 2003001838	A	20030624	NO 2003-1838	20030424
US 2004063704	A1	20040401	US 2003-415119	20031016
PRIORITY APPL. INFO.:				
OTHER SOURCE(S): MARPAT 136:355241				
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L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-[(2,3-dihydro-2,2-dimethyl-7-benzofuran-1-yl)oxy]propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

RN 420785-64-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-[(2,3-dihydro-2,2-dimethyl-7-benzofuran-1-yl)oxy]propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)RN 420785-67-7 CAPLUS
CN Benzonitrile, 2-[3-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-1-piperazinyl]butoxy]- (9CI) (CA INDEX NAME)RN 420785-68-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[4-(5-isoxazolyl)phenoxy]butyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

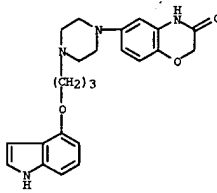
AB The title compds. [1: Ar = (un)substituted Ph, naphthyl, a monocyclic or a bicyclic heteroarom. group; when Ar = Ph or a monocyclic heteroarom. group, substituents positioned ortho to one another may be linked to form a 5-6 membered ring; R1 = H, alkyl, alkenyl, alkynyl, arylalkyl; R2 = halo, alkyl, CN, CF3, alkanoyl, alkoxy, OH; X = CH, N; Y = a single bond, O, CO; p = 0-2; r = 0-3; n = 2-4; m, q = 1-2], useful as medicaments for various CNS disorders, including depression and/or anxiety, were prepared thus, reacting 6-(4-piperidinyl)oxy-4H-benzo[1,4]oxazin-3-one.HCl with 4-1H-indolylacetaldehyde in the presence of NaBH(OAc)3 in 1,2-dichloroethane afforded 63% I [Ar = 4-indolyl; R1 = H; X = CH; Y = O; p = 0; q = 1; n, m = 2; r = 0]. All compds. I tested according to the radioligand binding assay were found to have pKi values > 6.0 at 5-HT1A receptors.

IT 420785-61-1P 420785-62-2P 420785-63-3P
420785-64-4P 420785-67-7P 420785-68-8P
420785-69-9P

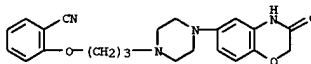
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzoxazinones as antidepressants and anxiolytics)

RN 420785-61-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-[(1H-indol-4-yloxy)propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

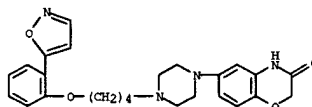


RN 420785-62-2 CAPLUS
CN Benzonitrile, 2-[3-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-1-piperazinyl]propoxy]- (9CI) (CA INDEX NAME)

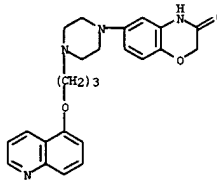


RN 420785-63-3 CAPLUS

L4 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



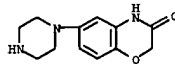
RN 420785-69-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[4-[3-(5-quinolinyl)oxy]propyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



IT 420785-50-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of benzoxazinones as antidepressants and anxiolytics)

RN 420785-50-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(1-piperazinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:864749 CAPLUS

DOCUMENT NUMBER: 135:371747

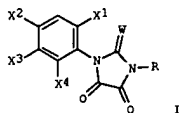
TITLE: Preparation of herbicidal imidazolidinetrione and thioximidazolidinediones
 INVENTOR(S): Li, Bin; Man, Ying; Zhang, Zongjian; Hsu, Adam Chi-tung

PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA
 SOURCE: Eur. Pat. Appl., 17 pp.
 CODEN: EPXKXW

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1157991	A2	20011128	EP 2001-303219	20010405
EP 1157991	A3	20011205		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6444615	B1	20020903	US 2000-551345	20000418
BR 2001001495	A	20020108	BR 2001-1495	20010417
JP 2001354660	A2	20011225	JP 2001-119413	20010418
			US 2000-551345	A 20000418

PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): HARPAT 135:371747
 GI



AB 1-Substituted-phenyl-3-substituted-2-thioxo-4,5-imidazolidinediones and 2,4,5-imidazolidinetriones I [R = H, alkyl, cycloalkyl, alkynyl, etc.; X1 = H, halo; X2 = halo, cyano, NO2; X3 = haloalkyl, alkoxy, alkylcarbonyl, etc.; X4 = H, halo; W = O, X], which have activity as herbicides, were prepared. E.g., herbicidal activity of I with four monocot weeds, four dicot weeds and one sedge weed were tested. E.g., 1-(2-fluoro-4-chloro-5-methoxycarbonylphenyl)-3-isopropyl-2,4,5-imidazolidinetrione was prepared.

IT 374718-07-7P 374718-08-8P 374718-09-9P
 374718-10-2P 374718-11-3P 374718-13-5P
 374718-14-6P 374718-15-7P 374718-16-8P

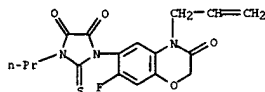
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of herbicidal imidazolidinetrione and thioximidazolidinediones)

RN 374718-07-7 CAPLUS

L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

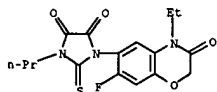
RN 374718-11-3 CAPLUS

CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



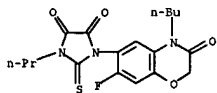
RN 374718-13-5 CAPLUS

CN 4,5-Imidazolidinedione, 1-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



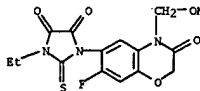
RN 374718-14-6 CAPLUS

CN 4,5-Imidazolidinedione, 1-(4-butyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)



RN 374718-15-7 CAPLUS

CN 4,5-Imidazolidinedione, 1-ethyl-3-[7-fluoro-3,4-dihydro-4-(methoxymethyl)-3-oxo-2H-1,4-benzoxazin-6-yl]-2-thioxo- (9CI) (CA INDEX NAME)



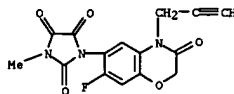
RN 374718-16-8 CAPLUS

CN 4,5-Imidazolidinedione, 1-ethyl-3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-2-thioxo- (9CI) (CA INDEX NAME)

<03/01/2005>

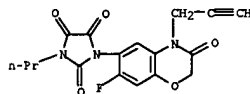
L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN Imidazolidinetrione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]methyl- (9CI) (CA INDEX NAME)



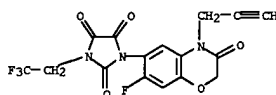
RN 374718-08-8 CAPLUS

CN Imidazolidinetrione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]propyl- (9CI) (CA INDEX NAME)



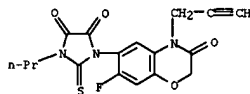
RN 374718-09-9 CAPLUS

CN Imidazolidinetrione, [7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl](2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

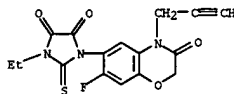


RN 374718-10-2 CAPLUS

CN 4,5-Imidazolidinedione, 1-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-3-propyl-2-thioxo- (9CI) (CA INDEX NAME)

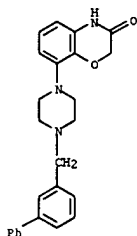


L4 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



Habte

L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:629000 CAPLUS
 DOCUMENT NUMBER: 135:357896
 TITLE: New 1-aryl-4-(biarylmethylene)piperazines as potential
 atypical antipsychotics sharing dopamine D2-receptor
 and serotonin 5-HT1A-receptor affinities
 AUTHOR(S): Feenstra, R. W.; de Moes, J.; Hofma, J. J.; Kling, H.;
 Kuipers, W.; Long, S. K.; Tulp, M. T. M.; van der
 Heyden, J. A. M.; Kruse, C. G.
 CORPORATE SOURCE: Research Laboratories, Solvay Pharmaceuticals, Weesp,
 1380 DA, Neth.
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2001),
 11(17), 2345-2349
 CODEN: BMCLB8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135:357896
 AB 1-Aryl-4-(biarylmethylene)piperazines were prepared and their affinity for
 D2 and 5-HT1A receptors was determined. A selection of these compds. was
 evaluated in vivo, resulting in the identification of a drug candidate
 which is being clin. evaluated as a potential atypical antipsychotic with
 reduced extrapyramidal side effects.
 IT 197954-64-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation)
 (preparation of 1-aryl-4-(biarylmethylene)piperazines as potential
 atypical
 antipsychotics sharing dopamine D2-receptor and serotonin
 5-HT1A-receptor affinities)
 RN 197954-64-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-([1,1'-biphenyl]-3-ylmethyl)-1-
 piperazinyl]- (9CI) (CA INDEX NAME)



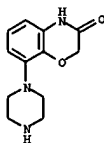
IT 105685-36-7

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:152642 CAPLUS
 DOCUMENT NUMBER: 134:193447
 TITLE: New phenylpiperazines
 INVENTOR(S): Van Hes, Roelof; Van Der Heijden, Johannes A. M.;
 Kruse, Cornelis G.; Tipker, Jacobus; Tulp, Martinus T.
 M.; Visser, Gerben M.; Van Vliet, Bernard J.
 PATENT ASSIGNEE(S): Solvay Pharmaceuticals B.V., Neth.
 SOURCE: PCT Int. Appl., 26 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001014330	A2	20010301	WO 2000-EP8190	20000822
WO 2001014330	A3	20010802		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TN				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2379021	AA	20010301	CA 2000-2379021	20000822
BR 2000013498	A	20020514	BR 2000-13498	20000822
EP 1212320	A2	20020612	EP 2000-962355	20000822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200460	T2	20020621	TR 2002-200200460	20000822
JP 2003507454	T2	20030825	JP 2001-518420	20000822
NZ 517900	A	20030829	NZ 2000-517900	20000822
AU 772189	B2	20040408	AU 2000-74118	20000822
AU 2000074118	A5	20010319		
RU 2246494	C2	20050220	RU 2002-107318	20000822
NO 2002000810	A	20020219	NO 2002-810	20020219
ZA 2002001829	A	20030605	ZA 2002-1829	20020305
PRIORITY APPLN. INFO.:				
EP 1999-202710 A 19990823				
NL 1999-101288 A 19990823				
WO 2000-EP8190 W 20000822				

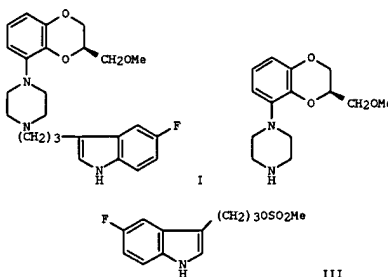
GI

L4 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 1-aryl-4-(biarylmethylene)piperazines as potential atypical
 antipsychotics sharing dopamine D2-receptor and serotonin
 5-HT1A-receptor affinities)
 RN 105685-36-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

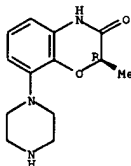


AB Phenylpiperazines such as I were prepared. Thus, I was prepared in 57% yield by refluxing 13.6 mmol II with 15.1 mmol 5-fluoroindole derivative III, 2 mL Et3N, and a catalytic amount of KI in 100 mL MeCN for 18 h.

IT 327026-92-6 327026-95-9 327027-00-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (arylpiperazine preparation)

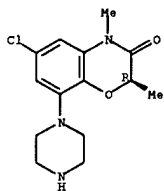
RN 327026-92-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 2-methyl-8-(1-piperazinyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

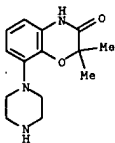


RN 327026-95-9 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-chloro-2,4-dimethyl-8-(1-piperazinyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

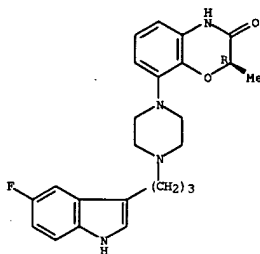


RN 327027-00-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 2,2-dimethyl-8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



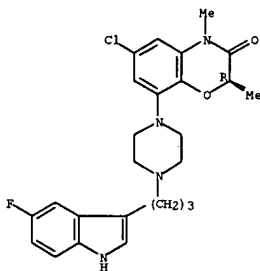
IT 327026-93-7P 327026-96-0P 327027-01-0P
327027-05-4P 327027-06-5P 327027-07-6P
327027-08-7P 327027-09-8P 327027-17-8P
327027-18-9P 327027-19-0P
RL: SPN (Synthetic preparation), PREP (Preparation)
(aryl)piperazine preparation)
RN 327026-93-7 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

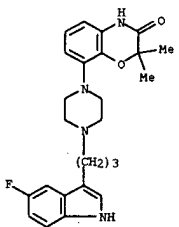


RN 327026-96-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-chloro-8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2,4-dimethyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

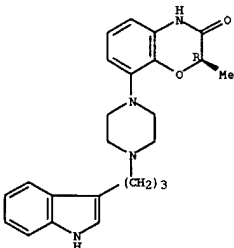


RN 327027-01-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2,2-dimethyl-, (9CI) (CA INDEX NAME)



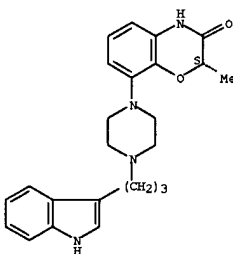
RN 327027-05-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



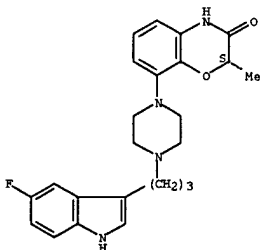
RN 327027-06-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



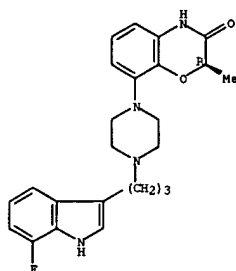
RN 327027-07-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(5-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



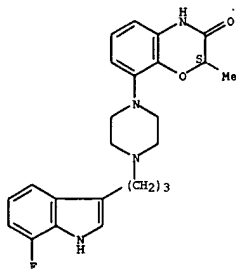
RN 327027-08-7 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[3-(7-fluoro-1H-indol-3-yl)propyl]-1-piperazinyl]-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



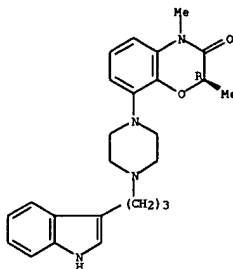
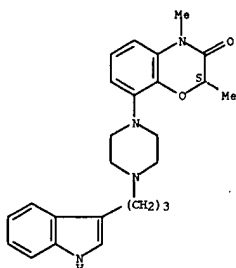
RN 327027-09-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(7-fluoro-1H-indol-3-yl)propyl}-1-piperazinyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



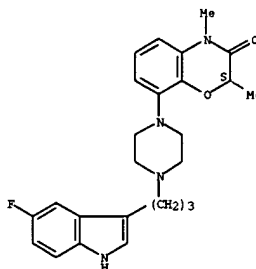
RN 327027-17-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(1H-indol-3-yl)propyl}-1-piperazinyl]-2,4-dimethyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 327027-18-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(5-fluoro-1H-indol-3-yl)propyl}-1-piperazinyl]-2,4-dimethyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

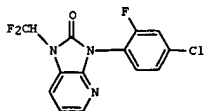


RN 327027-19-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-{3-(1H-indol-3-yl)propyl}-1-piperazinyl]-2,4-dimethyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

ACCESSION NUMBER: 1999:680067 CAPLUS
DOCUMENT NUMBER: 131:296514
TITLE: Herbicides containing fused imidazolinone derivatives
INVENTOR(S): Kondo, Yasuo; Mizukoshi, Takashi; Akiyama, Shigeaki; Watanabe, Shigeomi; Akiyoshi, Chiaki; Oki, Susumu
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.
CODEN: JPOKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11292720	AZ	19991026	JP 1998-101428	19980413
PRIORITY APPLN. INFO.			JP 1998-101428	19980413
OTHER SOURCE(S):		MARPAT 131:296514		
GI				

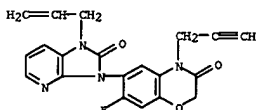


AB Agrochems., and especially new herbicides, contain fused imidazolinone derivs.

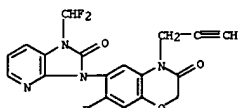
(e.g., I). Thus, in a greenhouse pot experiment I at 10 g/are gave ≥90% control of Echinochloa crus-galli, Scirpus juncoides, and Monochoria vaginalis with almost no damage to rice. Preparative examples and formulations are given.

IT 247181-48-2
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(preparation and herbicidal efficacy of)

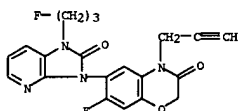
RN 247181-48-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1,2-dihydro-2-oxo-1-(2-propenyl)-3H-imidazo[4,5-b]pyridin-3-yl]-7-fluoro-4-(2-propenyl)- (9CI) (CA INDEX NAME)



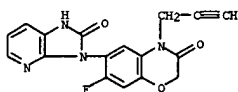
L4 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 IT 247181-46-0P 247181-47-1P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and herbicidal use of)
 RN 247181-46-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-(difluoromethyl)-1,2-dihydro-2-oxo-3H-imidazo[4,5-b]pyridin-3-yl]-7-fluoro-4-(2-propynyl)- (9CI) (CA INDEX NAME)



RN 247181-47-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-[1-(3-fluoropropyl)-1,2-dihydro-2-oxo-3H-imidazo[4,5-b]pyridin-3-yl]-4-(2-propynyl)- (9CI) (CA INDEX NAME)

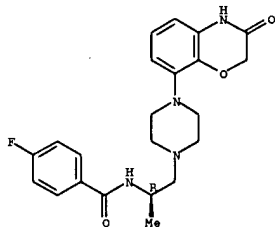


IT 247181-57-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of)
 RN 247181-57-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1,2-dihydro-2-oxo-3H-imidazo[4,5-b]pyridin-3-yl]-7-fluoro-4-(2-propynyl)- (9CI) (CA INDEX NAME)

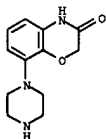


L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists)
 RN 221193-80-2 CAPLUS
 CN Benzamide, N-[(1R)-2-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]-1-methylethyl]-4-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 105685-36-7
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists)
 RN 105685-36-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)- (9CI) (CA INDEX NAME)



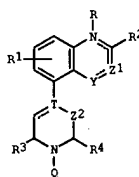
IT 221194-17-8P 221194-19-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists)
 RN 221194-17-8 CAPLUS
 CN Carbamic acid, [(1R)-2-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-8-yl)-1-piperazinyl]-1-methylethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<03/01/2005>

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1999:176950 CAPLUS
 DOCUMENT NUMBER: 130:223299
 TITLE: Preparation of 5-piperazinotetrahydroquinolines and analogs as 5-HT1 receptor agonists
 INVENTOR(S): Feenstra, R. W.; Visser, G. M.; Kruse, C. G.; Tulp, M. T. M.; Long, S. K.
 PATENT ASSIGNEE(S): Duphar International Research B.V., Neth.
 SOURCE: Eur. Pat. Appl., 26 pp.
 CODEN: EPXADW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

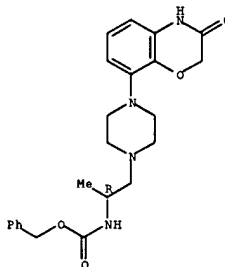
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 900792	A1	19990310	EP 1998-202832	19980824
EP 900792	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AT 253058	E	20031115	AT 1998-202832	19980824
CA 2246126	AA	19990302	CA 1998-2246126	19980828
JP 11147871	A2	19990602	JP 1998-259105	19980831
US 6214829	B1	20010410	US 1998-144076	19980831
PRIORITY APPLN. INFO.: OTHER SOURCE(S):		MARPAT 130:223299	EP 1997-202704	A 19970902
GI				



AB Title compds. [1: Q = CH2CR5R6Z7; R,R3,R4 = H or alkyl; R1 = H or F; R2 = H, alkyl, oxo (sic); RR2 = bond; R5,R6 = H, alkyl, alkylphenyl; R7 = cyclic group (sic), (hetero)aryl, adamantyl, etc.; T = N or C (sic); Y = C, O, N, or S (sic); Z = CH2O, CH2CO, NHCO, etc.; Z1 = (CR'')p; R'' = H or alkyl; Z2 = (CH2)n; n = 1 or 2; p = 0-2; dashed lines = optional bond(s)] were prepared. Thus, 5-(1-piperazinyl)-1,2,3,4-tetrahydroquinoline was alkylated by Cl(CH2)3COC6H4F-4 to give I [Q = (CH2)3COC6H4F-4; R-R4 = H, T = N, Y = Z1 = Z2 = CH2, dashed lines = null]. Data for biol. activity of I were given.

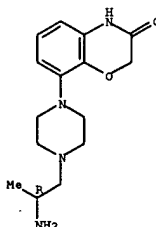
IT 221193-80-2P
 RL: RAC (Biological activity or effector, except adverse); BSU (Biological

L4 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 221194-19-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-[(2R)-2-aminopropyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:485181 CAPLUS
 DOCUMENT NUMBER: 129:119080
 TITLE: Methods of conferring resistance to herbicides inhibiting protoporphyrinogen biosynthesis to crop plants
 INVENTOR(S): Boynton, John E.; Gillham, Nicholas W.; Randolph-Anderson, Barbara L.; Ishige, Fumiharu; Sato, Ryo
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan; Duke University
 SOURCE: PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9829554	A1	19980709	WO 1996-US20415	19961227
W: AU, CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2276053	AA	19980709	CA 1996-2276053	19961227
AU 9714298	A1	19980731	AU 1997-14298	19961227
AU 739948	B2	20011025		
EP 1007703	A1	20000614	EP 1996-944519	19961227
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002528036	T2	20020827	JP 1998-529941	19961227
PRIORITY APPLN. INFO.:			WO 1996-US20415	A 19961227
			US 1997-48303P	P 19970530

OTHER SOURCE(S): MARPAT 129:119080
 AB Genes for herbicide-resistant variants of protoporphyrinogen oxidase are described for use in creating herbicide-resistant crop plants. Resistance to these herbicides should allow for simpler and more effective weed management, and increase the value of these herbicides for agricultural use. The *Chlamydomonas reinhardtii* gene for protoporphyrinogen oxidase is identified and herbicide-resistance alleles created. Protoporphyrinogen oxidase genes of *Chlamydomonas reinhardtii* and *Arabidopsis thaliana* were cloned by complementation of a hemG mutant of *Escherichia coli*. In addition, the present invention provides methods to evaluate the inhibitory effects of test compds. on protoporphyrinogen oxidase activity, as well as methods to identify protoporphyrinogen oxidase inhibitors among test compds. Preferred cloned DNA fragments encoding protoporphyrinogen oxidase enzymes resistant to porphyrin herbicides are also described.

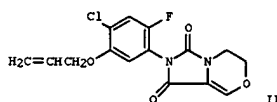
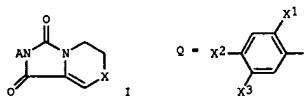
IT 123249-72-9
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (plant resistance to; methods of conferring resistance to herbicides inhibiting protoporphyrinogen biosynthesis to crop plants)
 RN 123249-72-9 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:13963 CAPLUS
 DOCUMENT NUMBER: 128:61517
 TITLE: Herbicidal bicyclic hydantoin derivatives, intermediates and process for their preparation
 INVENTOR(S): Hirai, Kenji; Yano, Tomoyuki; Okano, Natsuko; Ikemoto, Kazuhisa; Yoshii, Tomoko; Ugai, Sadayuki; Ueda, Takuya
 PATENT ASSIGNEE(S): Sagami Chemical Research Center, Japan; Karen Pharmaceutical Co., Ltd.
 SOURCE: PCT Int. Appl., 72 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9747626	A1	19971218	WO 1997-JP2046	19970613
W: AU, BR, CA, CN, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9731069	A1	19980107	AU 1997-31069	19970613
PRIORITY APPLN. INFO.:			JP 1996-154563	A 19960614
			WO 1997-JP2046	W 19970613

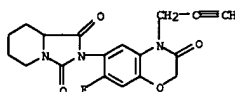
OTHER SOURCE(S): CASREACT 128:61517; MARPAT 128:61517
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AB The title compds. I [X = O, S; A = Q, etc.; X1 = H, halo; X2 = H, halo, alkyl, etc.; X3 = H, halo, alkyl, nitro, etc.] are prepared by, e.g., reacting an aryl isocyanate derivative with a dehydro(thio)morpholinecarboxylic acid derivative. Reaction of 5-allyloxy-4-chloro-2-fluorophenylisocyanate with Me 2,3-dehydromorpholine-3-carboxylate in toluene containing triethylamine gave the title compound II in 63% yield. II (at 2.5 g/are) gave 75% control of *Echinochloa crusgalli* and caused < 25% damage to corn.
 IT 200425-13-4P 200425-15-6P 200425-16-7P 200425-17-8P

<03/01/2005>

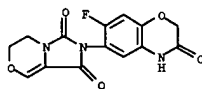
L4 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



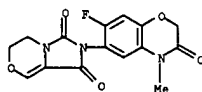
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

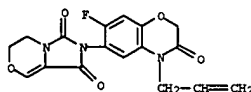
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of bicyclic hydantoin derivs. as herbicides)
 RN 200425-13-4 CAPLUS
 CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-5,6-dihydro- (9CI) (CA INDEX NAME)



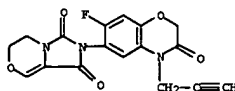
RN 200425-15-6 CAPLUS
 CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-(7-fluoro-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzoxazin-6-yl)-5,6-dihydro- (9CI) (CA INDEX NAME)



RN 200425-16-7 CAPLUS
 CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)-5,6-dihydro- (9CI) (CA INDEX NAME)



RN 200425-17-8 CAPLUS
 CN 1H-imidazo[5,1-c][1,4]oxazine-1,3(2H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)-5,6-dihydro- (9CI) (CA INDEX NAME)



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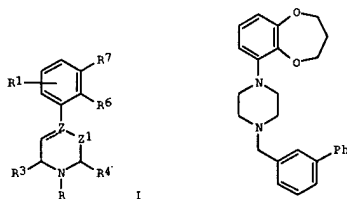
L4 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L4 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:679080 CAPLUS
 DOCUMENT NUMBER: 127:331506
 TITLE: Preparation of 1-biphenylmethyl-4-heteroaryl piperazines and analogs as nervous system agents
 INVENTOR(S): Feenstra, Roelof Willem; Kruse, Cornelis Gerrit; Tulp, Martinus Theodorus Maria; Kuipers, Wilma; Long, Stephen Kenneth; et al.
 PATENT ASSIGNER(S): Duphar International Research B.V., Neth.
 SOURCE: PCT Int. Appl., 30 pp.
 DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9736893	A1	19971009	WO 1997-EP1461	19970320
W: AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2250347	AA	19971009	CA 1997-2250347	19970320
AU 9720294	A1	19971022	AU 1997-20294	19970320
AU 708053	B2	19990729		
EP 889889	A1	19990113	EP 1997-908288	19970320
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1215400	A	19990428	CN 1997-193520	19970320
CN 1100055	B	20030129		
BR 9708389	A	20000104	BR 1997-8389	19970320
NZ 331860	A	20000428	NZ 1997-331860	19970320
JP 2000507949	T2	20000627	JP 1997-534886	19970320
TR 9801942	T2	20000821	TR 1998-9801942	19970320
RU 2178414	C2	20020120	RU 1998-119523	19970320
CZ 294413	B6	20041215	CZ 1998-3068	19970320
ZA 9702639	A	19971002	ZA 1997-2639	19970326
TW 422846	B	20010221	TW 1997-85104056	19970328
NO 9804533	A	19981102	NO 1998-4533	19980928
KR 2000005412	A	20000125	KR 1998-708145	19980929
US 6225312	B1	20010501	US 1999-155608	19990304
PRIORITY APPLN. INFO.:			EP 1996-200864	A 19960329
OTHER SOURCE(S):			WO 1997-EP1461	W 19970320
GI				

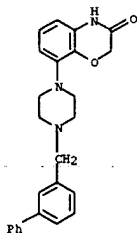
L4 ANSWER 14 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Title compds. [I; R = CH2Z2R5; R1 = H or F; R3, R4 = H or alkyl; R5 = (un)substituted Ph, -furyl, -thienyl; R6R7 = atoms to complete a (un)substituted heterocyclic ring; Z = C or N; Z1 = CH2 or CH2CH2; Z2 = 1,3-phenylene; dashed line = bond when Z = C and = null when Z = N] were prepared. Thus, 1-(3,4-dihydrobenzodioxepin-6-yl)piperazine was condensed with 3-bromomethylbiphenyl to give title compound II. Data for biol. activity of I were given.

IT 197954-64-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 1-biphenylmethyl-4-heteroaryl piperazines and analogs as nervous system agents)

RN 197954-64-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-[4-([1,1'-biphenyl]-3-ylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

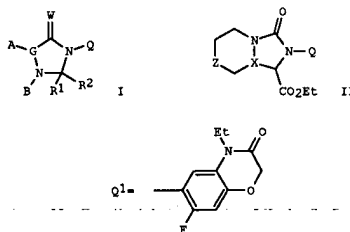


L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:547276 CAPLUS
 DOCUMENT NUMBER: 127:149151
 TITLE: Preparation of N-phenylimidazolones as herbicides
 INVENTOR(S): Kilama, John Jolly
 PATENT ASSIGNER(S): E. I. Du Pont de Nemours & Co., USA
 SOURCE: U.S., 46 pp., Cont.-in-part of U.S. Ser. No. 109,875, abandoned.
 DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English
 PATENT INFORMATION: 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5643855	A	19970701	US 1995-454155	19950615
CA 2151816	AA	19940707	CA 1993-2151816	19931207
WO 9414817	A1	19940707	WO 1993-US11636	19931207
W: AU, BE, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, US, US, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1992-992880	B2 19921221
			US 1993-73010	B2 19930604
			US 1993-96526	B2 19930722
			US 1993-109875	B2 19930820
			WO 1993-US11636	W 19931207

OTHER SOURCE(S): MARPAT 127:149151
 GI



AB Comps. such as Formula [I; Q = (un)substituted 2-halophenyl, benzene ring-condensed heterocyclyl; R1 = H, alkyl, haloalkyl, halo; R2 = (un)substituted C1-2 alkyl, CO2H, CONH2, or S(O)nNH2, cyano, etc.; wherein n = 0-2; or R1 and R2 can be taken together along with the carbon to which they are attached to form C:CHCO2H, C:CHaCO2H, C:CHtCO2H, or esters thereof, N-(un)substituted C:CHCONH2, C:CHaCONH2, or C:CHtCONH2; G = CH,

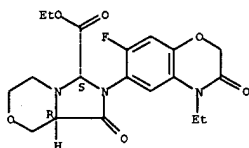
Habte

L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
C(C1-4 alkyl), A = C1-4 haloalkyl, C2-4 alkenyl or alkynyl, halo, (un)substituted OH or SH; A and B can be taken together to form CH₇CHR₆CHR₃, CH₇CHR₆CHR₄CHR₅, CH₇CHR₄CHR₅, CH₇CHR₄CHR₅, CH₇SO₂CHR₄CHR₅, N-(un)substituted CH₇NHCHR₄CHR₅ or CH₄CHR₅NHCHR₃, CH₇CR₆:CR₆CHR₃, CH₄CHR₅ SO₂CHR₄CHR₅, CH₇SO₂CHR₃; wherein R₃ - R₇ = H, halo, C1-4 alkyl, C1-4 haloalkyl; or R₃ and R₆, or R₆ and R₇ can be taken together to form CH₂; W = O or S; are prep'd. Thus, 4-chloro-2-fluoro-5-(1-methylethoxy)aniline was stirred with MeAl in CH₂CH₂ overnight at room temp. followed by adding 3-morpholinecarboxylic acid and the resultant mixt. was stirred at room temp. for 2 days to give N-[4-chloro-2-fluoro-5-(1-methylethoxy)phenyl]morpholine-3-carboxamide. The latter compd. was stirred with Et bromofluoroacetate in the presence of K₂CO₃ in MeCN under reflux to give an imidazo[5,1-c][1,4]oxazine deriv. (II; X = CH, Z = O, Q = 4-chloro-2-fluoro-5-(1-methylethoxy)phenyl). The latter compd. at 2,000 g/ha preemergence controlled giant fox tail, lambsquarter, and wild buckwheat by 3, 10, and 8 in a scale of from 0 (no control) to 10 (complete control). II (X = N, Z = CH₂, Q = Q1) at 1,000 g/ha preemergence completely controlled barnyard grass, bedstraw, chest grass, chickweed, cocklebur, crab grass, giant foxtail, lambsquarter, morning glory, nutsedge, velvet leaf, and wild buckwheat.

IT 193342-21-1P 193342-22-2P 193342-24-4P
193342-25-5P 193342-26-6P 193342-27-7P
193342-28-8P 193342-29-9P 193342-31-3P
193342-32-4P 193342-33-5P 193342-34-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of N-phenylimidazolones as herbicides)

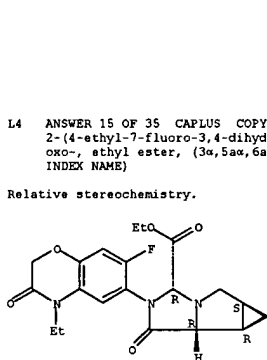
RN 193342-21-1 CAPLUS
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis-(9CI) (CA INDEX NAME)

Relative stereochemistry.



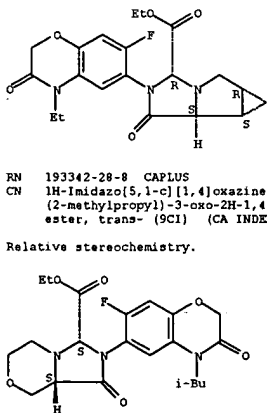
RN 193342-22-2 CAPLUS
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-27-7 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

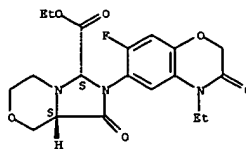
Relative stereochemistry.



RN 193342-29-9 CAPLUS
CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-

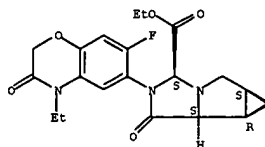
<03/01/2005>

L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



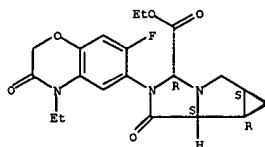
RN 193342-24-4 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-25-5 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

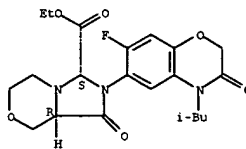
Relative stereochemistry.



RN 193342-26-6 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid,

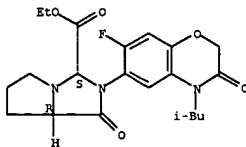
L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



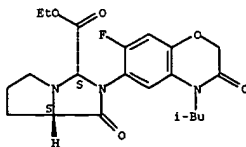
RN 193342-31-3 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-32-4 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

Relative stereochemistry.

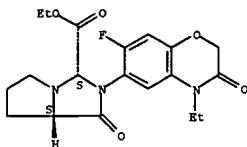


RN 193342-33-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans-(9CI) (CA INDEX NAME)

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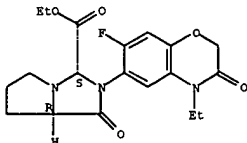
L4 ANSWER 15 OF 35 CAPLUS COPYRIGHT 2005 ACS on STM (Continued)

Relative stereochemistry.

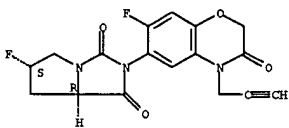


RN 193342-34-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis-(9CI) (CA INDEX NAME)

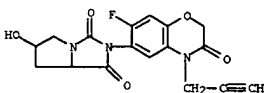
Relative stereochemistry.



L4 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2005 ACS on STM (Continued)

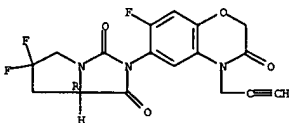


RN 187750-21-6 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-6-hydroxy-, (9CI) (CA INDEX NAME)



RN 187750-22-7 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 6,6-difluoro-2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, (R)- (9CI) (CA INDEX NAME)

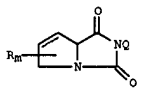
Absolute stereochemistry.



L4 ANSWER 16 OF 35 CAPLUS COPYRIGHT 2005 ACS on STM
ACCESSION NUMBER: 1997:196176 CAPLUS
DOCUMENT NUMBER: 126:196422
TITLE: Preparation of bicyclic imides as herbicides
INVENTOR(S): Schafer, Matthias; Drauz, Karlheinz; Feit, Dieter; Amati, Kofi S.
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 31 pp., Cont.-in-part of U.S. Ser. No. 942,800, abandoned
CODEN: USXOAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5605877	A	19970225	US 1995-397282	19950310
WO 9405668	A1	19940317	WO 1993-EP2413	19930906
W:	AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
DE 9321642	U1	20011213	DE 1993-9321642	19930906
PRIORITY APPLN. INFO.:			US 1992-942800	B2 19920910
			WO 1993-EP2413	W 19930906
			DE 1993-69329683	A 19930906

OTHER SOURCE(S): HARPAT 126:196422
GI



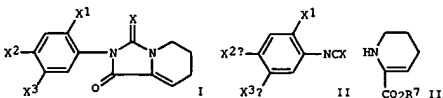
AB The title compds. I [Q = (un)substituted Ph, 2-phenyldioxolane, benzodioxole, etc.; R = OH, halo, alkyl, CN, etc.; m = 1-7] are prepared as herbicides. I may be used, i.e., in pre-emergence application to peanut.
IT 187750-20-5P 187750-21-6P 187750-22-7P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as herbicide)
RN 187750-20-5 CAPLUS
CN 1H-Pyrrolo[1,2-c]imidazole-1,3(2H)-dione, 6-fluoro-2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, (6S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STM
ACCESSION NUMBER: 1996:531796 CAPLUS
DOCUMENT NUMBER: 125:167985
TITLE: Hydantoin derivatives, process for producing the same and herbicides comprising the same as active ingredients
INVENTOR(S): Hirai, Kenji; Yano, Tomoyuki; Okano, Natuko; Ugai, Sadaaki; Yamada, Osamu
PATENT ASSIGNEE(S): Sasaki Chemical Research Center, Japan; Kaken Pharmaceutical Co., Ltd.
SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620195	A1	19960704	WO 1995-JP2683	19951226
W:	AU, BR, CA, CN, KR, US			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
CA 2208263	AA	19960704	CA 1995-2208263	19951226
AU 9643157	A1	19960719	AU 1996-43157	19951226
AU 692030	B2	19960528		
JP 09040673	A2	19970210	JP 1995-338383	19951226
EP 801068	A1	19971015	EP 1995-941888	19951226
R:	AT, CH, DE, ES, FR, GB, GR, IT, LI, PT, IE			
BR 9510107	A	19971125	BR 1995-10107	19951226
CN 1175255	A	19980304	CN 1995-197677	19951226
US 5883049	A	19990316	US 1997-836154	19970818
PRIORITY APPLN. INFO.:			JP 1994-324536	A 19941227
			JP 1995-122054	A 19950522
			WO 1995-JP2683	W 19951226

OTHER SOURCE(S): CASREACT 125:167985; HARPAT 125:167985
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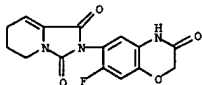


AB Novel 2-phenyl-5,6-dihydroimidazo[1,5-a]pyridine-1,3(2H,7H)-dione derivs. (I) X = O, S; X1 = H, halo, C1-8 alkyl; X2 = H, halo, C1-8 alkyl, Y-CH(R)CO2R2; X3 = H, halo, C1-8 alkyl, ZR3, NO2, NR4R5; or XZK3 = Y-CH(R)CONR6; wherein Y, Z = O or S; R1 = H, C1-4 alkyl; R2 = C1-6 alkyl, aralkyl; R3 = H, C1-11 alkyl, C3-8 cycloalkyl, C3-12 alkenyl or alkynyl, C1-8 alkoxy-carbonylmethyl or alkoxy-carbonyl, C7-11 aralkyloxy-carbonyl; R4, R5 = H, C1-6 alkyl, C2-6 acyl, C1-6 alkylsulfonyl, arylsulfonyl; R6 = H, C1-11 alkyl, C3-8 cycloalkyl, C3-12 alkenyl or alkynyl, having excellent herbicidal activities, are produced by reacting aryl isocyanate derivs. represented by general formula (II) X = O, S; X1, X2a = H, halo, C1-8 alkyl; X3a = H, halo, C1-8 alkyl, ZR3a, NO2, NR4aR5a; R3a = C1-11 alkyl, C3-8 cycloalkyl, C3-12 alkenyl or alkynyl, C1-8 alkoxy-carbonylmethyl or

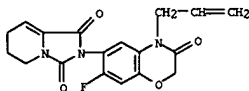
L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
alkoxycarbonyl, C7-11 aralkyloxycarbonyl; R4a, R5b = Cl-6 alkyl, C2-6 acyl, C1-6 alkylsulfonyl, arylsulfonyl, with a dehydripecolinic acid deriv. represented by general formula (III); R7 = H, Cl-6 alkyl). Thus, a soln. of 4-chloro-5-cyclopentyl-2-fluorophenyl isocyanate and Et3N in toluene was added dropwise to a soln. of III (R7 = Et) in toluene under ice-cooling and stirred at the same temp. for 30, at room temp. for 7 h, at 60° for 1 h, and at 80° for 1 h to give I (X = O, X1 = F, X2 = Cl, X3 = cyclopentyl). I (X = O, X1 = F, X2 = Cl, X3 = Me) at 0.1, 0.25, and 0.5/are (postemergence application in flooded soil) inhibited 100% the growth of rice paddy weeds such as Echinochloa crus-galli, Cyperus difformis, broad leaf weed, Monochoria vaginalis, Scirpus juncoides, and Eleocharis acicularis and 25-38% the growth of rice seedlings.

IT 180533-07-7P 180533-08-8P 180533-09-9P
180533-10-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of phenylidihydroimidazopyridinedione derivs. as herbicides)

RN 180533-07-7 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)



RN 180533-08-8 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)

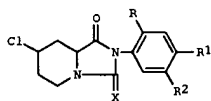


RN 180533-09-9 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:190874 CAPLUS
DOCUMENT NUMBER: 124:261061
TITLE: Preparation of 2-phenyl-7-chloroperhydroimidazo[1,5-a]pyridine herbicides for controlling undesired weeds
INVENTOR(S): Seckinger, Karl; Mohanty, Sasank Sekhar; Milzner, Karlheinz; Kühnen, Fred
PATENT ASSIGNEE(S): Sandoz Ltd., Switz.; Sandoz-Patent-GmbH; Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H.
SOURCE: Eur. Pat. Appl., 24 pp.
CODEN: EPXKDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 688773	A1	19951227	EP 1995-810410	19950620
EP 688773	B1	19980520		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
US 5665681	A	19970909	US 1995-492687	19950620
JP 08053449	A2	19960227	JP 1995-154600	19950621
			GB 1994-12603	A 19940623

PRIORITY APPL. INFO.: CASREACT 124:261061; MARPAT 124:261061
OTHER SOURCE(S): GI

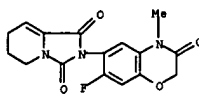


AB The title compds. (I; X = O, S; R = H, Cl, F; R1 = F, Cl, Br, CN, Me; R2 = halogen, C 1-6 alkyl, Cl-6 alkoxy, Cl-6 alkylcarbonyloxy, C3-6 cycloalkoxy, C3-6 alkynyl, C3-6 alkenyl, CO2H, etc.), useful as herbicides for the control of undesired weeds, are prepared thus. 4-chloro-2-piperidinecarboxylic acid Me ester hydrochloride was reacted with the isocyanate of Me 2-chloro-4-fluoro-5-aminocinnamate, producing herbicidal Me 2-chloro-4-fluoro-5-(7-chloroperhydroimidazo[1,5-a]pyridine-1,3-dione-2-yl)cinnamate, m.p. 162-163°.

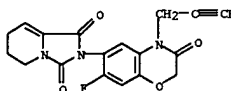
IT 174798-43-7P 174798-44-8P 174798-45-9P
174798-46-0P 174798-47-1P 174798-49-3P
174798-50-6P 174798-51-7P 174798-52-8P
174798-53-9P 174798-54-0P 174798-55-1P
174798-56-2P 174798-59-5P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 2-phenyl-7-chloroperhydroimidazo[1,5-a]pyridine herbicides for controlling undesired weeds)

RN 174798-43-7 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(7-chlorohexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-7-fluoro- (9CI) (CA INDEX NAME)

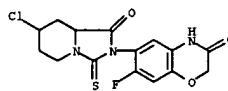
L4 ANSWER 17 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



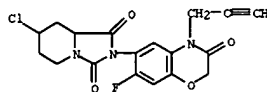
RN 180533-10-2 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)



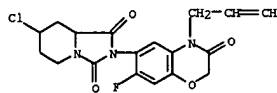
L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



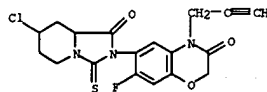
RN 174798-44-8 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



RN 174798-45-9 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)

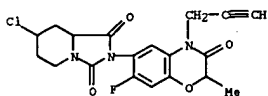


RN 174798-46-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(7-chlorohexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-7-fluoro-4-(2-propenyl)- (9CI) (CA INDEX NAME)

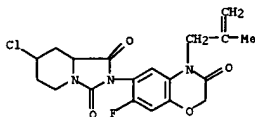


RN 174798-47-1 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-2-methyl-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)

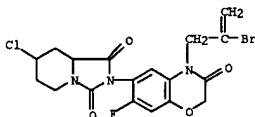
L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 174798-49-3 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-[(7-fluoro-3,4-dihydro-4-(2-methyl-2-propenyl)-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI)] (CA INDEX NAME)



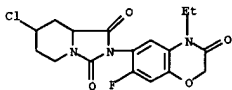
RN 174798-50-6 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-(2-bromo-2-propenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]-7-chlorotetrahydro- (9CI)] (CA INDEX NAME)



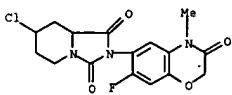
RN 174798-51-7 CAPLUS
CN 2-Butenoic acid, 4-[6-(7-chlorohexahydro-1,3-dioximidazo[1,5-a]pyridin-2(3H)-yl)-7-fluoro-2,3-dihydro-3-oxo-4H-1,4-benzoxazin-4-yl]-, methyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

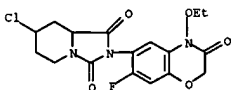
RN 174798-55-1 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



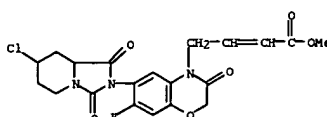
RN 174798-56-2 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(7-fluoro-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



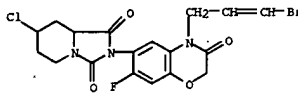
RN 174798-59-5 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-(4-ethoxy-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



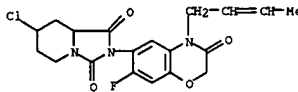
L4 ANSWER 18 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



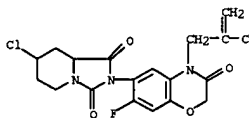
RN 174798-52-8 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-(3-bromo-2-propenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]-7-chlorotetrahydro- (9CI)] (CA INDEX NAME)



RN 174798-53-9 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[4-(2-butenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]-7-chlorotetrahydro- (9CI)] (CA INDEX NAME)



RN 174798-54-0 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-chloro-2-[4-(2-chloro-2-propenyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI)] (CA INDEX NAME)



L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:994364 CAPLUS
DOCUMENT NUMBER: 124:87028
TITLE: Herbicidal tricyclic heterocycles and bicyclic ureas
INVENTOR(S): Kilama, John Jolly
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA; Degussa Aktiengesellschaft
SOURCE: PCT Int. Appl., 87 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

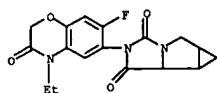
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9522547	A1	19950824	WO 1995-US1502	19950210
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2183328	AA	19950824	CA 1995-2183328	19950210
AU 9518714	A1	19950904	AU 1995-18714	19950210
AU 678896	B2	19970612		
EP 745084	A1	19961204	EP 1995-910926	19950210
R: DE, ES, FR, GB, IT				
US 5700761	A	19971223	US 1996-693107	19960815
PRIORITY APPLN. INFO.:			US 1994-197085	A2 19940216
			WO 1995-US1502	W 19950210
OTHER SOURCE(S):		MARPAT 124:87028		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

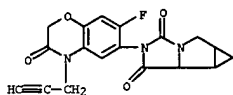
AB Compds. I-IV, useful as herbicides, are disclosed [wherein Q = certain (un)substituted and/or (hetero)fused Ph groups; R1 = H, halo, Cl-3 alkyl; R2 = H, F, Cl, Br; V = O, S; X = halo, cyano; n = 1, 2; p = 0 or 1 provided that when n = 2 then p = 0; R3 = H, Cl-5 (halo)alkyl, C3-6 (halo)cycloalkyl, (un)substituted Ph; plus N-oxides and salts]. For example, cis-1,2-cyclopropanedicarboximide [prepared in 3 steps] was reduced with BH3.THF and acidified to give 67% 3-azabicyclo[3.1.0]hexane-HCl, which underwent N-chlorination with NCS, dehydrochlorination, cyanation with NaCN, and hydrolysis, to give 68% 3-azabicyclo[3.1.0]hexane-2-carboxylic acid. This underwent amidation with 4-chloro-2-fluoro-5-(2-propenyloxy)aniline and cyclization with triphosgene to give title compound V. At 100 g/ha postemergence, V gave complete kill of barnyardgrass, chickweed, cocklebur, lambsquarter, and morningglory. Data include characterizations of 54 compds. I, 5 example syntheses, and results from 6 different herbicidal screenings of various sets of I.

IT 172404-13-6P 172404-14-7P 172404-15-8P
172404-16-9P 172404-17-0P 172404-18-1P
172404-19-2P 172404-45-0P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

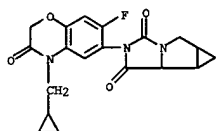
L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
(prepn. of herbicidal tricyclic heterocycles and bicyclic ureas)
RN 172404-13-6 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,
2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro-
(9CI) (CA INDEX NAME)



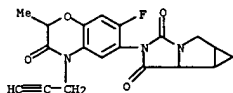
RN 172404-14-7 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,
2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



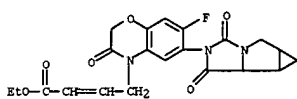
RN 172404-15-8 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,
2-(4-(cyclopropylmethyl)-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



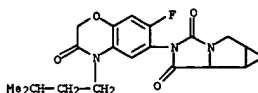
RN 172404-16-9 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,
2-(7-fluoro-3,4-dihydro-4-(3-methylbutyl)-3-oxo-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



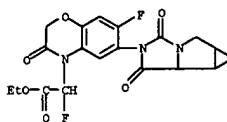
RN 172644-45-0 CAPLUS
CN 2-Butenoic acid, 4-(7-fluoro-6-(hexahydro-1,3-dioxocyclopropa[3,4]pyrrolo[1,2-c]imidazol-2(3H)-yl)-2,3-dihydro-3-oxo-4H-1,4-benzoxazin-4-yl)-, ethyl ester (9CI) (CA INDEX NAME)



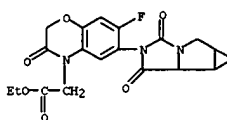
L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)



RN 172404-17-0 CAPLUS
CN 4H-1,4-Benzoxazine-4-acetic acid, alpha,7-difluoro-6-(hexahydro-1,3-dioxocyclopropa[3,4]pyrrolo[1,2-c]imidazol-2(3H)-yl)-2,3-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 172404-18-1 CAPLUS
CN 4H-1,4-Benzoxazine-4-acetic acid, 7-fluoro-6-(hexahydro-1,3-dioxocyclopropa[3,4]pyrrolo[1,2-c]imidazol-2(3H)-yl)-2,3-dihydro-3-oxo-, ethyl ester (9CI) (CA INDEX NAME)



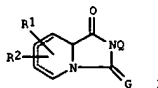
RN 172404-19-2 CAPLUS
CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-1,3(2H,5H)-dione,
2-(7-fluoro-3,4-dihydro-2-methyl-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

L4 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN

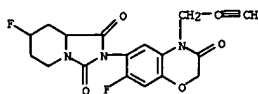
ACCESSION NUMBER: 1995:888099 CAPLUS
DOCUMENT NUMBER: 123:332749
TITLE: Herbicidal bicyclic hydantoins.
INVENTOR(S): Schaefer, Mathias
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA; Degussa Aktiengesellschaft
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9523509	A1	19950908	WO 1995-US2665	19950228
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9521155	A1	19950918	AU 1995-21155	19950228
PRIORITY APPLN. INFO.:			US 1994-204027	A 19940301
			WO 1995-US2665	W 19950228
OTHER SOURCE(S):		MARPAT 123:332749		
GI				

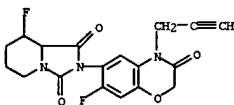


AB The title compds. I [G = O, S, NH; R1 = halo, OH, CN, alkyl, etc.; R2 = H, OH, halo; R1R2 = O; Q = (un)substituted Ph, benzoxazinyl, etc.] are herbicides. I provide broad-spectrum weed control in citrus, sugarcane, coffee, banana, oil palm, loblolly pine, rubber tree, cocoa, grapes, plantain, pineapple, fruit trees, nut trees, and the like.
2-[4-Chloro-2-fluoro-5-(1-methylethoxy)phenyl]-7-fluorotetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione is an example.
IT 169554-95-4 169554-96-5 169554-97-6
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (herbicidal bicyclic hydantoins)
RN 169554-95-4 CAPLUS
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7-fluoro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)

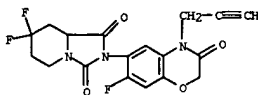
L4 ANSWER 20 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 169554-96-5 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 8-fluoro-2-[(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)]



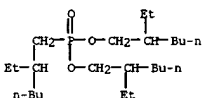
RN 169554-97-6 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 7,7-difluoro-2-[(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)]



L4 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CH 2

CRN 126-63-6
 CMF C24 H51 O3 P



L4 ANSWER 21 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:46850 CAPLUS
 DOCUMENT NUMBER: 122:3566
 TITLE: Synergistic herbicidal mixtures containing a phosphonate.
 INVENTOR(S): Mach, Martin; Fischer, Bernd; Bohnert, Juergen; Rees, Richard
 PATENT ASSIGNEE(S): Schering A.-G., Germany
 SOURCE: Ger., 9 pp.
 CODEN: GWXXAW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4305542	C1	19940721	DE 1993-4305542	19930220
CA 2156494	AA	19940901	CA 1994-2156494	19940217
WO 9418837	A1	19940901	WO 1994-EP571	19940217
W: CA, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 684766	A1	19951206	EP 1994-909081	19940217
EP 684766	B1	19970416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 151598	E	19970515	AT 1994-909081	19940217
PRIORITY APPLN. INFO.:			DE 1993-4305542	A 19930220
			WO 1994-EP571	W 19940217

AB Synergistic mixts. comprise 0,0-bis(2-ethylhexyl) (2-ethylhexyl)phosphonate (I) and any of 16 known herbicides. Thus, a mixture of 750 g chlortoluron and 48 g I/ha synergistically controlled Stellaria media and Matricaria chamomilla, when applied postemergence to winter wheat.

IT 158988-74-0
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

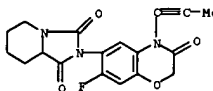
(herbicide, synergistic)

RN 158988-74-0 CAPLUS

CN Phosphonic acid, (2-ethylhexyl)-, bis(2-ethylhexyl) ester, mixt. with 2-[(7-fluoro-3,4-dihydro-3-oxo-4-(1-propynyl)-2H-1,4-benzoxazin-6-yl)tetrahydro-2H-1,4-benzoxazin-3(4H)-one (9CI) (CA INDEX NAME)

CH 1

CRN 158988-73-9
 CMF C18 H16 F N3 O4

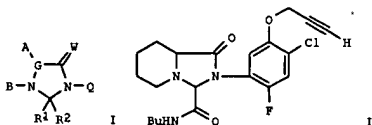


L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:630804 CAPLUS
 DOCUMENT NUMBER: 121:230804
 TITLE: Herbicidal Imidazolones and Imidazol[1,5-a]pyridinones
 INVENTOR(S): Kilama, John Jolly
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
 SOURCE: PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9414817	A1	19940707	WO 1993-US11636	19931207
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, LV, MG, MW, MY, NO, NZ, PL, RO, RU, SD, SK, UA, US, US, US, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2151816	AA	19940707	CA 1993-2151816	19931207
AU 9457338	A1	19940719	AU 1994-57338	19931207
AU 674912	B2	19970116		
EP 674644	A1	19951004	EP 1994-903373	19931207
R: DE, ES, FR, GB, IT				
US 5643855	A	19970701	US 1995-454155	19950615
PRIORITY APPLN. INFO.:			US 1992-992880	A 19921221
			US 1993-73010	A 19930604
			US 1993-96526	A 19930722
			US 1993-109875	A 19930820
			WO 1993-US11636	W 19931207

OTHER SOURCE(S): MARPAT 121:230804
 GI



AB Imidazolones I (Q = aryl, heteroaryl, benzodiazepinyl, etc.; R1 = H; alkyl, haloalkyl, etc.; R2 = alkyl, alkoxy, carboxy, etc.; A = alkyl, alkenyl, etc.; B = alkyl, alkenyl, haloalkyl, etc.; W = oxygen, sulfur) were disclosed. The uses of I as herbicides are claimed. An example compound,

N-butyl-2-[(4-chloro-2-fluoro-5-[(2-propynyl)oxy]phenyl)octahydro-1-oxoimidazol[1,5-a]pyridine-3-carboxamide (II) was prepared

IT 193342-21-1P 193342-22-2P 193342-24-4P

193342-25-5P 193342-26-6P 193342-27-7P

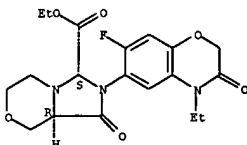
193342-28-8P 193342-29-9P 193342-31-3P

193342-32-4P 193342-33-5P 193342-34-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic)

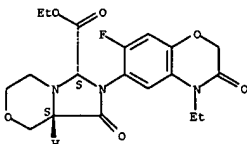
L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 preparation; BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as herbicide)
 RN 193342-21-1 CAPLUS
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-22-2 CAPLUS
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



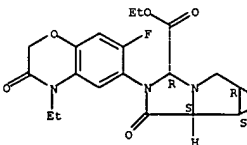
RN 193342-24-4 CAPLUS
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



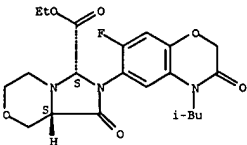
L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



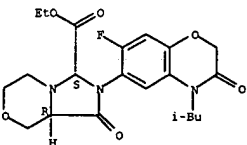
RN 193342-28-8 CAPLUS
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-29-9 CAPLUS
 CN 1H-Imidazo[5,1-c][1,4]oxazine-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

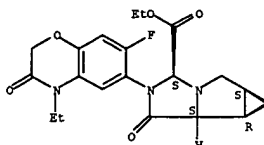
Relative stereochemistry.



RN 193342-31-3 CAPLUS
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

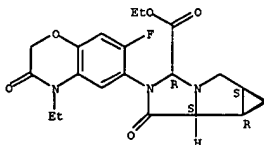
<03/01/2005>

L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



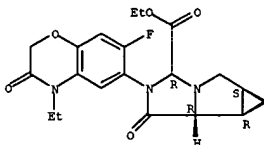
RN 193342-25-5 CAPLUS
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-26-6 CAPLUS
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

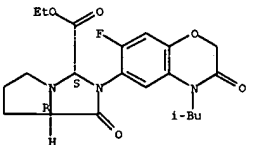
Relative stereochemistry.



RN 193342-27-7 CAPLUS
 CN Cyclopropa[3,4]pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)octahydro-1-oxo-, ethyl ester, (3a,5aβ,6aβ,6bβ)- (9CI) (CA INDEX NAME)

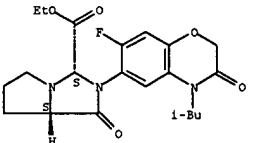
L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



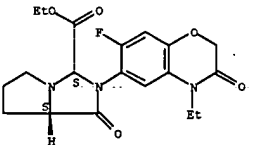
RN 193342-32-4 CAPLUS
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-[7-fluoro-3,4-dihydro-4-(2-methylpropyl)-3-oxo-2H-1,4-benzoxazin-6-yl]hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 193342-33-5 CAPLUS
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, trans- (9CI) (CA INDEX NAME)

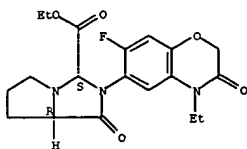
Relative stereochemistry.



RN 193342-34-6 CAPLUS
 CN 1H-Pyrrolo[1,2-c]imidazole-3-carboxylic acid, 2-(4-ethyl-7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)hexahydro-1-oxo-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Habte

L4 ANSWER 22 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Relative stereochemistry.



L4 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:164204 CAPLUS

DOCUMENT NUMBER: 120:164204

TITLE: Preparation of D,L-2-(7-fluor-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-6-yl)perhydroimidazo[1,5-a]pyridine-1,3-diones

INVENTOR(S): Ganter, Michael; Puttner, Reinhold; Seba, Hartmut

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger., 12 pp.

CODEN: GWXAW

DOCUMENT TYPE: Patent

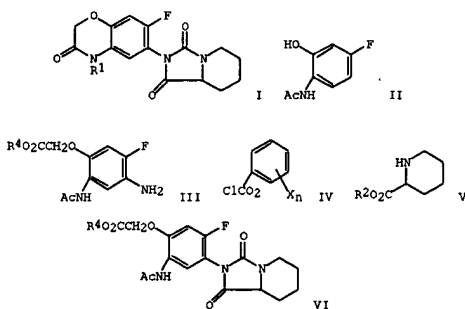
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4208778	C1	19930923	DE 1992-4208778	19920317
WO 9319065	A1	19930930	WO 1993-EP598	19930310
W: HU, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE	A1	19950104	EP 1993-906536	19930310
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE	T2	19950525	JP 1993-516237	19930310
JP 07504671	A2	19950529	HU 1994-2674	19930310
HU 68172	B	19951030		
HU 211068				
PRIORITY APPLN. INFO.: DE 1992-4208778 A 19920317				
WO 1993-EP598 W 19930310				
OTHER SOURCE(S): HARPAT 120:164204				
GI				

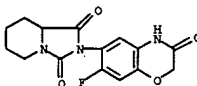
L4 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L4 ANSWER 23 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(prepn. of, as herbicide intermediate)

RN 153084-00-5 CAPLUS

CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-(7-fluoro-3,4-dihydro-3-oxo-4-1,4-benzoxazin-6-yl)tetrahydro- (9CI) (CA INDEX NAME)



AB Title compds. (I; R1 = alkyl, alkenyl, alkynyl) were prepared by 1) acetylation of 2-amino-5-fluorophenol with AcCl or Ac2O in the presence of an acid acceptor, optionally in a solvent, to give II, 2) treatment of II with R4O2CCH2Y (R4 = H, alkyl; Y = halo, MeSO2O, 4-MeC6H4SO2O) to give the ether deriv, 3) nitration of the ether with HNO3 or an (in)organic derivative,

optionally in a solvent, 4) hydrogenation to give intermediate III, 5) acylation of the amine with chloroformate IV (X = halo, NO2, cyano; n = 0-5) in an inert solvent, optionally in the presence of an (in)organic acid acceptor, 6) treatment of the resulting phenoxyacetate deriv with piperidinecarboxylate V (R2 = H, Me, Et) to give hydantoin VI, 7) cyclization of VI, optionally in the presence of acid or base, and 8) treatment of the cyclized product with R1W (W = Cl, Br, iodo, MeSO2O, 4-MeC6H4SO2O). I (R1 = 2-propynyl) was prepared as above with yields of 84-99% per step.

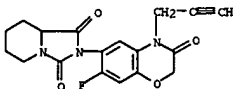
IT 123249-72-99

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 123249-72-9 CAPLUS

CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



IT 153084-00-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

<03/01/2005>

Habte

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1993:488917 CAPLUS
 DOCUMENT NUMBER: 119:88917
 TITLE: Synergistic herbicidal compositions comprising an imidazopyridinedione derivative.
 INVENTOR(S): Johann, Gerhard; Rees, Richard
 PATENT ASSIGNEE(S): Schering A.-G., Germany
 SOURCE: Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4136740	A1	19930506	DE 1991-4136740	19911105
WO 9308689	A1	19930513	WO 1992-EP2535	19921030
W: AU, BR, CA, FI, HU, JP, KR, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
AU 9229204	A1	19930607	AU 1992-29204	19921030
EP 612213	A1	19940831	EP 1992-923266	19921030
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
HU 66872	A2	19950130	HU 1994-1307	19921030
JP 07502498	T2	19950316	JP 1992-508170	19921030
BR 9206712	A	19951024	BR 1992-6712	19921030
ZA 9208540	A	19930505	ZA 1992-8540	19921105
CN 1073071	A	19930616	CN 1992-113786	19921105
FI 9402050	A	19940504	FI 1994-2050	19940504

PRIORITY APPL. INFO.:
 DE 1991-4136740 A 19911105
 WO 1992-EP2535 A 19921030
 AB Mixts. of 2-[7-fluoro-3-oxo-4-(2-propynyl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]perhydroimidazo[1,5-a]pyridine-1,3-dione (I) with glyphosate, sulfometuron-methyl, imazapyr, 2,4-D, dicamba, diuron, oxyfluorfen, glufosinate ammonium, aminotriazole or sethoxydim, are synergistic herbicides. Postemergence application of a mixture of 4 g I and 100 g 2,4-D/ha, synergistically controlled *Sesbania exaltata*, *Bidens pilosa* and *Amaranthus retroflexus*.
 IT 148645-25-4 148645-26-5 148645-27-6
 148645-28-7 148645-29-8 148645-30-1
 148645-31-2 148645-32-3 148645-33-4
 148690-59-9

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (herbicide, synergistic)

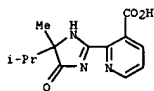
RN 148645-25-4 CAPLUS
 CN Benzoic acid, 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl-, methyl ester, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

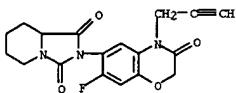


RN 148645-27-6 CAPLUS
 CN Acetic acid, (2,4-dichlorophenoxy)-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

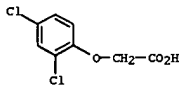
CMF C18 H16 F N3 O4



CH 2

CRN 94-75-7

CMF C8 H6 Cl2 O3



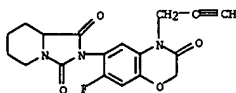
RN 148645-28-7 CAPLUS
 CN Benzoic acid, 3,6-dichloro-2-methoxy-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

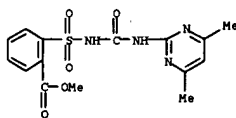
L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



CH 2

CRN 74222-97-2

CMF C15 H16 N4 O5 S



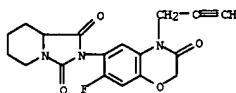
RN 148645-26-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-6,7,8,8a-tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

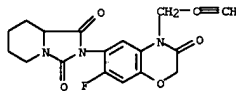


CH 2

CRN 81334-34-1

CMF C13 H15 N3 O3

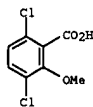
L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



CH 2

CRN 1918-00-9

CMF C8 H6 Cl2 O3



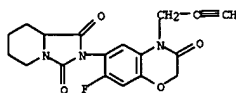
RN 148645-29-8 CAPLUS

CN Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CH 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

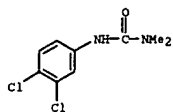


CH 2

CRN 330-54-1

CMF C9 H10 Cl2 N2 O

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

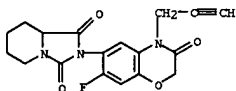


RN 148645-30-1 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, mixt. with 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene (9CI) (CA INDEX NAME)

CM 1

CRN 123249-72-9

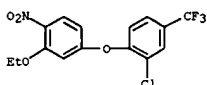
CMF C18 H16 F N3 O4



CM 2

CRN 42874-03-3

CMF C15 H11 Cl F3 N O4



RN 148645-31-2 CAPLUS
 CN Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CM 1

CRN 123249-72-9

L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

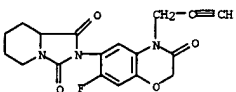


RN 148645-33-4 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, mixt. with 2-[1-(ethoxymino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

CM 1

CRN 123249-72-9

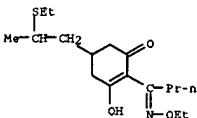
CMF C18 H16 F N3 O4



CM 2

CRN 74051-80-2

CMF C17 H29 N O3 S



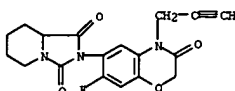
RN 148690-59-9 CAPLUS
 CN Glycine, N-(phosphonomethyl)-, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydroimidazo[1,5-a]pyridine-1,3(2H,5H)-dione (9CI) (CA INDEX NAME)

CM 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

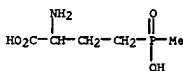
L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



CM 2

CRN 77182-82-2

CMF C5 H12 N O4 F . H3 N



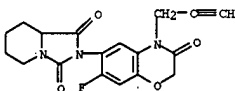
● NH3

RN 148645-32-3 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro-, mixt. with 1H-1,2,4-triazol-3-amine (9CI) (CA INDEX NAME)

CM 1

CRN 123249-72-9

CMF C18 H16 F N3 O4

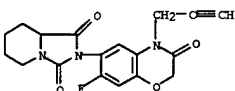


CM 2

CRN 61-82-5

CMF C2 H4 N4

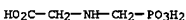
L4 ANSWER 24 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



CM 2

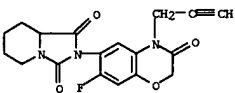
CRN 1071-83-6

CMF C3 H8 N O5 P



IT 123249-72-9D, mixts. containing
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (herbicides, synergistic)

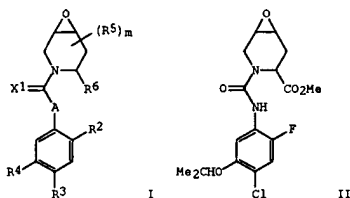
RN 123249-72-9 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



L4 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1993:124517 CAPLUS
 DOCUMENT NUMBER: 118:124517
 TITLE: Preparation of 1-acyl-2-carboxyl-4,5-epoxypiperidines
 as herbicides
 INVENTOR(S): Seckinger, Karl; Milzner, Karlheinz; Kuhnert, Fred;
 Mohanty, Sasank Sekhar
 PATENT ASSIGNEE(S): Sandoz Ltd., Switz.; Sandoz-Patent-G.m.b.H.;
 Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H.
 SOURCE: Eur. Pat. Appl., 41 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 514339	A1	19921119	EP 1992-810350	19920511
FR AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE				
HU 61654	A1	19930301	HU 1992-1457	19920430
CA 2068846	AA	19921118	CA 1992-2068846	19920515
AU 9216322	A1	19921119	AU 1992-16322	19920515
AU 644058	B2	19931202		
BR 9201856	A	19931015	BR 1992-1856	19920515
JP 05163274	A2	19930629	JP 1992-123139	19920515
ZA 203570	A	19931115	ZA 1992-3570	19920515
US 5221744	A	19930622	US 1992-12150	19920817
PRIORITY APPLM. INFO.:			GB 1991-10679	A 19910517
			US 1992-880431	B1 19920508

OTHER SOURCE(S): MARPAT 118:124517
GI



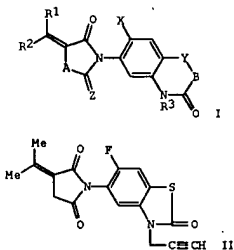
AB Title compds. [i: R2 = H, halo; R3 = halo, cyano, alkyl; R4 = H, halo, NO₂, amino, cyano, (cyano)alkyl, (cyano)alkyl, alkynyl, (substituted) alkonycarbonalkyl, alkonycarbonalkonylalkonylalkyl, alkonycarbonalkenylalkyl, alkylthioalkyl, alkylsulfonalkyl, alkylsulfonyl, etc.] R3R4 = atoms to form an (O-, N-, or S-containing) (substituted) ring; R5 = H, alkyl, halo,

CH.

L4 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 1991:429351 CAPLUS
DOCUMENT NUMBER: 115:29351
TITLE: Preparation of (N-heterocyclophenyl)alkyldenedioxazo-
les as herbicides and plant growth regulators
INVENTOR(S): Ooms, Pieter; Luessen, Klaus; Santel, Hans Joachim;
Schmidt, Robert R.; Krauskopf, Birgit
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 40 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3922107	A1	19910117	DE 1989-3922107	19890705
PRIORITY APPLN. INFO.:			DE 1989-3922107	19890705

OTHER SOURCE(S): MARPAT 115:29351
GI



AB Title compds. [1: R1, R2 = H, alkyl; R1R2 = alkylens; R3,R4 = H, (substituted) alkyl, alkenyl, alkenyl, cycloalkyl, aralkyl, heteroaryl; X = H, halo; Y,Z = 0, S; A = O, CH₂R, NR₄; R12C₂C; B = bond, CH₂, MeCH, Me₂C] were prepared as herbicides and plant growth regulators (no data). Thus, a mixture of isopropylindeneacetic anhydride and 5-amino-6-fluoro-2,3-dihydro-2-oxo-3-propenyl-1,3-benzothiazoline was heated at 135° top for 1 hr to give H₂OAc to give 5-amino-6-fluoro-2,3-dihydro-2-oxo-3-propenyl-1,3-benzothiazoline which was said to be superior to a comparison compound against Galium and Polygonum.

1260007-07-6P 1260007-08-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as herbicide and plant growth regulator)

2,4-Imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-

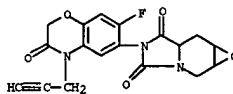
<03/01/2005>

L4 ANSWER 25 OF 35 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
alkenyl, 10; R6 = (modified) carbonylcarboxylate: A = NHU or AR6 = NCX2; X1, X2 = O, S; m = 0-2; were pred. as herbicides (no data). Thus, Me
4,5-epoxy-2-piperidinecarboxylate (prepn. given) was stirred with
4-chloro-2-fluoro-5-isopropoxyphenyl isocyanate in PhMe to give title
compd. II. I. were said to be particularly effective against Abutilon
thephrastris, Amananthus retroflexus, and Solanum nigrum.

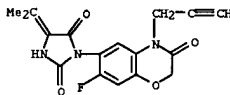
IT 145981-39-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

RN 145981-39-1 CAPLUS

Imidazo[1,5-a]oxireno[d]pyridine-4,6(2H,5H)-dione, 5-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

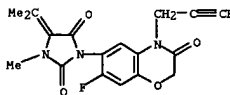


L4 ANSWER 26 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
1,4-benzoxazin-6-yl]-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



RN 126007-08-7 CAPLUS

2,4-Imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-1-methyl-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)

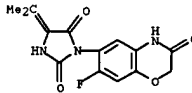


IT 134440-46-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of herbicide and plant growth regulator)

RN 134440-46-3 CAPLUS

2,4-Imidazolidinedione, 3-(7-fluoro-3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



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L4 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

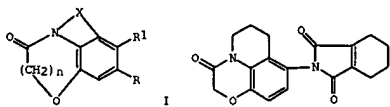
LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 406993	A2	19910109	EP 1990-250169	19900703
EP 406993	A3	19911227		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DE 3922847	A1	19910117	DE 1989-3922847	19890707
CN 1048545	A	19910116	CN 1989-103169	19900703
DD 296402	A5	19911205	DD 1990-342491	19900704
HU 54163	A2	19910128	HU 1990-4125	19900706
JP 03115286	A2	19910516	JP 1990-177629	19900706
PRIORITY APPLN. INFO.:			DE 1989-3922847	A 19890707

OTHER SOURCE(S): CASREACT 114:143432; MARPAT 114:143432
GI



AB Title compds. I [n = 1,2; R = H, F, Cl; R1 = cyclic imido, thioimido, thiazabicycloalkylideneamino; X = (CH2)3, CH:CHCH2, CH2CH:CH, unsubstituted or substituted by Me or Et] were prepared. Thus, the tetrahydrophthalimide II was obtained in 90% yield by treating the pyridobenzoxazinylamine with tetrahydrophthalic anhydride. II at 0.3 kg/ha post-emergence caused >75% inhibition of several broad-leaf weeds.

IT 132503-24-3P 132503-25-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and herbicidal activity of)

RN 132503-24-3 CAPLUS

CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, tetrahydro-2-(2,3,6,7-tetrahydro-3-oxo-5H-pyrido[1,2,3-de]-1,4-benzoxazin-8-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

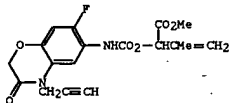
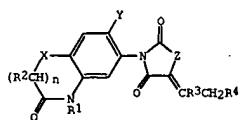
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 338533	A2	19891025	EP 1989-107028	19890419
EP 338533	A3	19920408		
EP 338533	B1	19941109		
R: CH, DE, FR, GB, LI				
US 5322835	A	19940621	US 1989-337406	19890413
JP 02288878	A2	19901128	JP 1989-95892	19890414
RU 2010525	C1	19940415	RU 1990-4830595	19900803
PRIORITY APPLN. INFO.:			JP 1988-98590	A 19880420
			JP 1988-98591	A 19880420
			JP 1988-167924	A 19880705
			JP 1989-37855	A 19890216

OTHER SOURCE(S):

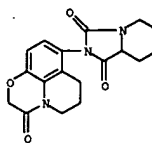
GI



AB The title compds. [I; X = O, S; Y = H, F; Z = O, CH2, (substituted) imino; R1 = H, alkyl, alkenyl, alkynyl, etc.; R2-R4 = H, alkyl; n = 0,1], useful as herbicides, are prepared. Benzoxazinylcarbamate II was refluxed with NaOMe in toluene for 3 h to give I (X = Z = O, Y = F, R1 = CH2C(=O)CH2CH2, R2 = R4 = H, R3 = Me, n = 1 (III)). III at 0 g/are killed 100% Japanese millet, tall morning glory, and velvet leaf. Herbicidal

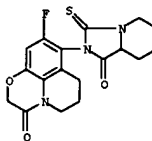
<03/01/2005>

L4 ANSWER 27 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 132503-25-4 CAPLUS

CN 5H-Pyrido[1,2,3-de]-1,4-benzoxazin-3(2H)-one, 9-fluoro-8-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-6,7-dihydro- (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

formulations are given.

IT 126006-98-2P 126007-07-6P 126007-08-7P

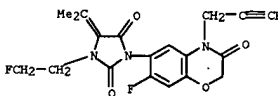
126007-09-8P 126007-10-1P 126007-23-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as herbicide)

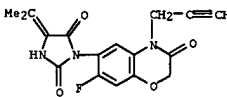
RN 126006-98-2 CAPLUS

CN 2,4-Imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-1-(2-fluoroethyl)-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



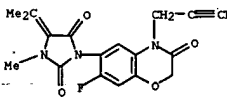
RN 126007-07-6 CAPLUS

CN 2,4-Imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)



RN 126007-08-7 CAPLUS

CN 2,4-Imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-1-methyl-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)

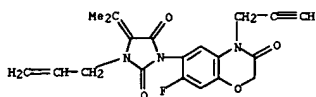


RN 126007-09-8 CAPLUS

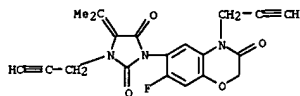
CN 2,4-Imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propenyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)-1-(2-propenyl)- (9CI) (CA INDEX NAME)

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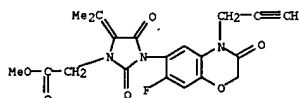
L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 126007-10-1 CAPLUS
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)-1-(2-propynyl)- (9CI) (CA INDEX NAME)



RN 126007-23-6 CAPLUS
 CN 1-imidazolidinedioneacetic acid, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)-2,4-dioxo-, methyl ester (9CI) (CA INDEX NAME)



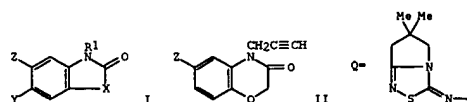
IT 126007-07-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of herbicides)
 RN 126007-07-6 CAPLUS
 CN 2,4-imidazolidinedione, 3-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-5-(1-methylethylidene)- (9CI) (CA INDEX NAME)

L4 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:574127 CAPLUS
 DOCUMENT NUMBER: 111:174127
 TITLE: Preparation of heterocyclyloxobenzazoles and -azines as herbicides
 INVENTOR(S): Ganzer, Michael; Franks, Wilfried; Dorfmeister, Gabrielle; Johann, Gerhard; Arndt, Friedrich; Rees, Richard
 PATENT ASSIGNEE(S): Schering A.-G., Fed. Rep. Ger.
 SOURCE: Eur. Pat. Appl., 43 pp.
 CODEN: EFXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

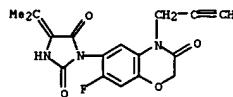
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 311135	A2	19890412	EP 1988-116762	19881010
EP 311135	A3	19890906		
EP 311135	B1	19930602		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DE 3734745	A1	19890420	DE 1987-3734745	19871009
IL 87887	A1	19930404	IL 1988-87887	19880930
DD 282847	A5	19900926	DD 1988-320543	19881006
SU 1722204	A3	19920323	SU 1988-4356592	19881006
DK 8805634	A	19890410	DK 1988-5634	19881007
FI 8804625	A	19890410	FI 1988-4625	19881007
FI 92585	B	19940831		
FI 92585	C	19941212		
AU 8823568	A1	19890413	AU 1988-23568	19881007
AU 614775	B2	19910912		
BR 8805182	A	19890523	BR 1988-5182	19881007
JP 01157977	A2	19890621	JP 1988-252230	19881007
JP 2765873	B2	19980618		
ZA 8807559	A	19890628	ZA 1988-7559	19881007
HU 49356	A2	19890928	HU 1988-5224	19881007
HU 207330	B	19930329		
CN 1032479	A	19890426	CN 1988-109124	19881008
AT 90091	E	19930615	AT 1988-116762	19881010
ES 2058206	T3	19941101	ES 1988-116762	19881010
PRIORITY APPL. INFO.: DE 1987-3734745 A 19871009 EP 1988-116762 A 19881010				
OTHER SOURCE(S): CASREACT 111:174127; MARPAT 111:174127				

GI



AB The title compds. [I; R1 = H, (un)substituted C1-5 alkyl, C3-5 alkenyl,
 <03/01/2005>

L4 ANSWER 28 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

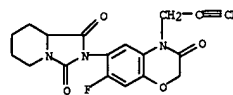


L4 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 etc.; X = (CR2R3)nW, CR2:V in which V and W are bound to Ph-moiety; V = CR1, N = CR4R5, NR6, O, S; R2-R5 = H, halo, C1-3 (halo)alkyl; R6 = H, Me, halomethyl; Y = H, F, Cl; Z = 1 specific and 7 general heterocyclyl; n = 0, 1) were prepd. Aminobenzoxazinone II (Z = NH2) was stirred 10 h with Cl2CS in CH2Cl2 contg. CaCO3 to give 84% II (Z = NCS) which was added at 5° to a soln. of 2-amino-4,4-dimethyl-1-pyrroline in CH2Cl2 and the whole stirred 3 h with warming to 20° whereupon the soln. was cooled to -20°, Br added, and stirring continued 1 h with warming to 10° to give 25% III (Z = pyrrolochadiazolyldeneimino group) which gave complete kill of 9 weeds and no effect on wheat at 0.1 kg/ha postemergent.

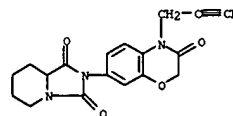
IT 123249-72-9P 123249-73-OP 123249-74-1P
 123249-75-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

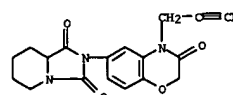
RN 123249-72-9 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



RN 123249-73-0 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-7-yl]tetrahydro- (9CI) (CA INDEX NAME)

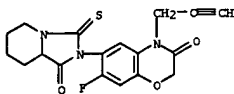


RN 123249-74-1 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



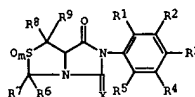
Habte

L4 ANSWER 29 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 123249-75-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(2-propynyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:153798 CAPLUS
 DOCUMENT NUMBER: 111:153798
 TITLE: Preparation of condensed (thio)hydantoin as herbicides
 INVENTOR(S): Lindel, Hans; Santel, Hans Joachim; Schmidt, Robert R.; Strang, Harry
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
 SOURCE: Eur. Pat. Appl., 42 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 290902	A2	19881117	EP 1988-107009	19880502
R: BE, CH, DE, FR, GB, IT, LI, NL				
DE 3740256	A1	19881208	DE 1987-3740256	19871127
AU 8815854	A1	19881117	AU 1988-15854	19880505
JP 63287782	A2	19881124	JP 1988-112658	19880511
BR 8802324	A	19881213	BR 1988-2324	19880512
DK 8802646	A	19881115	DK 1988-2646	19880513
PRIORITY APPLN. INFO.:			DE 1987-3716108	A 19870514
			DE 1987-3740256	A 19871127
OTHER SOURCE(S):		CASREACT 111:153798; MARPAT 111:153798		
GI				

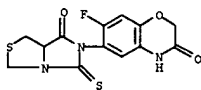


AB The title compds., 1H,3H-imidazo[1,5-c]thiazole-5,7(6H,7aH)-diones and S analogs, (I; R1, R4, R5 = H, halo; R2, R3 = H, halo, NO2, cyano, (un)substituted alkyl(oxy), alkenyl(oxy), alkynyl(oxy), alkylthio, alkylamino, etc.; R2R3 = X1A(CO)n; R6 = H, (un)substituted Ph, naphthyl; R7-R9 = H, alkyl; A = bond, (chloro)alkylene; X, X1 = O, S; Y = O, S, R10H; R10 = H, (un)substituted alkyl, alkenyl, alkynyl; m = 0-2; n = 0, 1] were prepared as herbicides (no data). A mixture of Et 4-thiazolidinecarboxylate and 4-BrC6H4NCS (general preparation given) were stirred 60 min at 20° in PhMe to give 88% I (R1 = R2 = R4 = R5 = R6-R9 = H, R3 = Br, X = S, m = 0).

IT 120222-53-9P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (Preparation of, as herbicide)

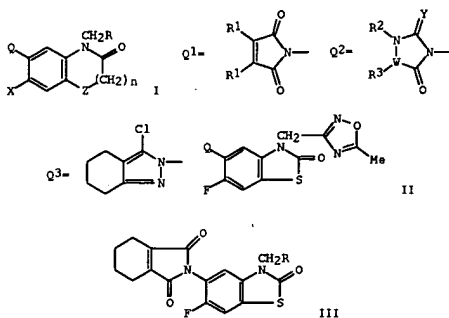
RN 120222-53-9 CAPLUS

L4 ANSWER 30 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(dihydro-7-oxo-5-thioxo-1H,3H-imidazo[1,5-c]thiazol-6(5H)-yl)-7-fluoro- (9CI) (CA INDEX NAME)



L4 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:173245 CAPLUS
 DOCUMENT NUMBER: 110:173245
 TITLE: Preparation of N-(heterocyclylmethyl)benzoxazinones and analogs as herbicides
 INVENTOR(S): Kume, Toyohiko; Goto, Toshio; Kamochi, Atsumi; Yanagi, Akihiko; Yagi, Shigeki; Shibuya, Katsuhiko; Miyauchi, Hiroshi
 PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan
 SOURCE: Eur. Pat. Appl., 87 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

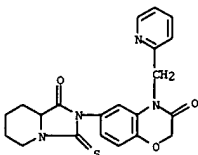
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 296416	A1	19881228	EP 1988-109234	19880610
EP 296416	B1	19920729		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 01075486	A2	19890322	JP 1987-231063	19870917
JP 01102076	A2	19890419	JP 1987-258462	19871015
AU 8816944	A1	19881222	AU 1988-16944	19880601
AU 605304	B2	19910110		
US 4902335	A	19900220	US 1988-209170	19880617
JP 01085977	A2	19890330	JP 1988-151142	19880621
BR 8803045	A	19890110	BR 1988-3045	19880622
JP 01052775	A2	19890228	JP 1988-183640	19880725
US 5077401	A	19911231	US 1989-418001	19891006
PRIORITY APPLN. INFO.:			JP 1987-155093	A 19870622
			JP 1987-231063	A 19870917
			JP 1987-258462	A 19871015
			US 1988-209170	A3 19880617
OTHER SOURCE(S):		MARPAT 110:173245		
GI				



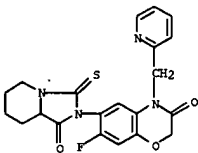
AB The title compds. [I: Q = heterocyclyl groups Q1-Q3, etc.; R = cycloalkyl, (un)substituted heterocyclyl; R1 = Me; (R1)2 = (CH2)4; R2R3 = (CH2)4, CH2CH:CHCH2; W = CH, W = O, S; n = 0, 1] were prepared 6-fluoro-2(3H)-benzothiazolone was refluxed 5 h with 3-chloromethyl-5-methyl-1,2,4-oxadiazole in MeCN containing K2CO3 to give oxadiazolymethylbenzothiazolone II (Q = H) which was converted in 2 steps to II (Q = NH2). The latter was refluxed 2 h with 3,4,5,6-tetrahydrophthalic anhydride in HOAc to give isoxindolonylbenzothiazolone III (R = 5-methyl-1,2,4-oxadiazol-3-yl). III (R = 2-pyridyl) gave 295% herbicidal control of 4 weeds with no phytotoxicity to rice in culture at 0.06 kg/ha.

IT 120102-66-1P 120102-67-2P 120102-70-7P 120102-66-5P 120102-67-6P 120102-69-8P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)
 RN 120102-66-1 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[7-fluoro-3,4-dihydro-4-(3-isoxazolymethyl)-3-oxo-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

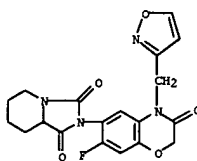
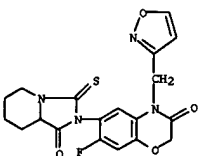
L4 ANSWER 31 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



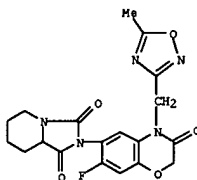
RN 120102-87-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



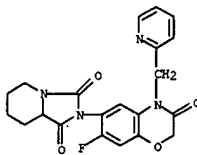
RN 120102-89-8 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-fluoro-6-(hexahydro-1-oxo-3-thioxoimidazo[1,5-a]pyridin-2(3H)-yl)-4-(3-isoxazolymethyl)- (9CI) (CA INDEX NAME)



RN 120102-67-2 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[(7-fluoro-3,4-dihydro-4-(5-methyl-1,2,4-oxadiazol-3-yl)methyl)-3-oxo-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)

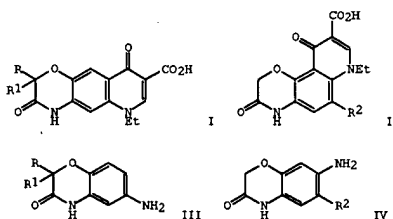


RN 120102-70-7 CAPLUS
 CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione, 2-[(7-fluoro-3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]tetrahydro- (9CI) (CA INDEX NAME)



RN 120102-86-5 CAPLUS

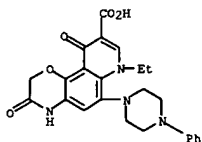
L4 ANSWER 32 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:135165 CAPLUS
 DOCUMENT NUMBER: 110:135165
 TITLE: Synthesis and antibacterial activity of 1,4-oxazinoquinolone carboxylic acids
 AUTHOR(S): Sastry, C. V. Reddy; Rao, K. Srinivas; Rastogi, K.; Jain, M. L.; Reddy, G. S.; Singh, K. V.
 CORPORATE SOURCE: IDPL Res. Cent., Indian Drugs & Pharm. Ltd., Hyderabad, 500 037, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(7), 649-52
 CODEN: IJSCDD; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 110:135165
 GI



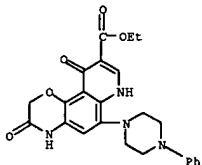
AB A series of 2H[1,4]oxazino[2,3-g]quinoline-8-carboxylic acids I (R = R1 = H, Me; R = H, R1 = Et) and 2H[1,4]oxazino[2,3-f]quinoline-9-carboxylic acids II (R2 = Cl, PhS, 4-phenylpiperazino, morpholino) were prepared from benzoxazines III and IV, resp. and EtOCH:CO2Et in 4 steps. I, II, and their Et esters were screened for their antibacterial activity in vitro against a variety of gram pos. and gram neg. bacteria. I (R = R1 = H) shows promising antibacterial activity in vitro superior to that of nalidixic acid.

IT 119453-69-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and bactericidal activity of)

RN 119453-69-9 CAPLUS
 CN 2H-Pyrido[2,3-b]-1,4-benzoxazine-9-carboxylic acid, 7-ethyl-3-tetrahydro-3,10-dioxo-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



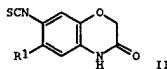
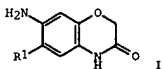
IT 119453-50-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and ethylation of)
 RN 119453-50-8 CAPLUS
 CN 2H-Pyrido[2,3-b]-1,4-benzoxazine-9-carboxylic acid, 3,4,7,10-tetrahydro-3,10-dioxo-6-(4-phenyl-1-piperazinyl)-, ethyl ester (9CI) (CA INDEX NAME)



IT 119453-62-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and hydrolysis of)
 RN 119453-62-2 CAPLUS
 CN 2H-Pyrido[2,3-b]-1,4-benzoxazine-9-carboxylic acid, 7-ethyl-3,4,7,10-tetrahydro-3,10-dioxo-6-(4-phenyl-1-piperazinyl)-, ethyl ester (9CI) (CA INDEX NAME)

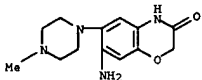
L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:570339 CAPLUS
 DOCUMENT NUMBER: 109:170339
 TITLE: Synthesis and anthelmintic activity of some new 6-(arythio-/arylsulfonyl/substituted amino)-7-isothiocyanato-2H-1,4-benzoxazin-3(4H)-ones
 AUTHOR(S): Sastry, C. V. Reddy; Rao, K. Srinivas; Rastogi, K.; Jain, M. L.
 CORPORATE SOURCE: IDPL, Indian Drugs and Pharm. Ltd., Hyderabad, 500 037, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(3), 290-2
 CODEN: IJSCBB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 109:170339
 GI

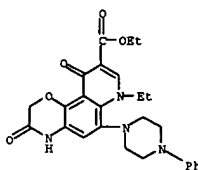


AB Aminobenzoxazinones I (R1 = arylthio, arylsulfonyl, secondary amino) were treated with thiophosgene to give isothiocyanato-substituted compds. II. II are potential anthelmintics. Among the products was II (R1 = 4-methyl-1-piperazinyl).

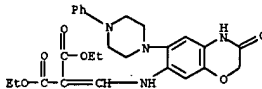
IT 116862-41-0P 116862-42-1P 116862-43-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and condensation reaction of, with thiophosgene)
 RN 116862-41-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



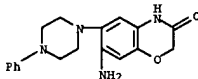
RN 116862-42-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



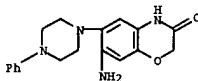
IT 119453-46-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and intramol. cyclization of, oxazinoquinoline derivs. from)
 RN 119453-46-2 CAPLUS
 CN Propanedioic acid, [[[3,4-dihydro-3-oxo-6-(4-phenyl-1-piperazinyl)-2H-1,4-benzoxazin-7-yl]amino]methylene]-, diethyl ester (9CI) (CA INDEX NAME)



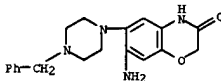
IT 116862-42-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with di-Et ethoxymethylenemalonate)
 RN 116862-42-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



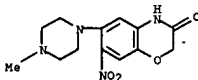
L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



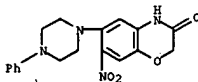
RN 116862-43-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-amino-6-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



IT 116862-35-2P 116862-36-3P 116862-37-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of, amino analog from)
 RN 116862-35-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(4-methyl-1-piperazinyl)-7-nitro- (9CI) (CA INDEX NAME)

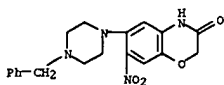


RN 116862-36-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-nitro-6-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

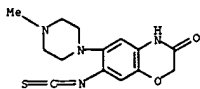


RN 116862-37-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-nitro-6-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)

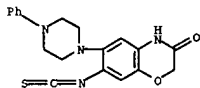
L4 ANSWER 33 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



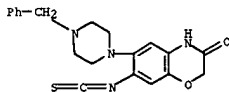
IT 116862-53-4P 116862-54-5P 116862-55-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as anthelmintic)
 RN 116862-53-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-isothiocyanato-6-(4-methyl-1-piperazinyl)-
 (9CI) (CA INDEX NAME)



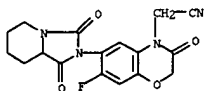
RN 116862-54-5 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-isothiocyanato-6-(4-phenyl-1-piperazinyl)-
 (9CI) (CA INDEX NAME)



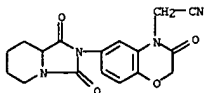
RN 116862-55-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 7-isothiocyanato-6-(4-(phenylmethyl)-1-piperazinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)
 RN 115614-83-0 CAPLUS
 CN 4H-1,4-Benzoxazine-4-acetonitrile, 7-fluoro-6-(hexahydro-1,3-dioximidazo[1,5-a]pyridin-2(3H)-yl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



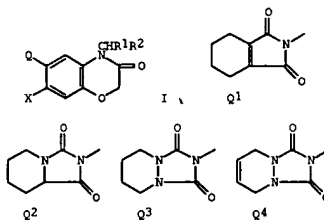
RN 115614-88-5 CAPLUS
 CN 4H-1,4-Benzoxazine-4-acetonitrile, 6-(hexahydro-1,3-dioximidazo[1,5-a]pyridin-2(3H)-yl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:473459 CAPLUS
 DOCUMENT NUMBER: 109:73459
 TITLE: Preparation and testing of indolobenzoxazinone derivatives as herbicides
 INVENTOR(S): Kume, Toyochiko; Goto, Toshio; Kamochi, Atsumi; Yamaguchi, Naoko; Yanagi, Akihiko; Hayakawa, Hidenori; Yagi, Shigeki; Miyauchi, Hiroshi
 PATENT ASSIGNEE(S): Nihon Tokushu Noyaku Seizo K. K., Japan
 SOURCE: Eur. Pat. Appl., 32 pp.
 CODEN: EFXKJW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 263299	A1	19880413	EP 1987-112651	19870831
EP 263299	B1	19901107		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 63068587	A2	19880328	JP 1986-210725	19860909
JP 63196582	A2	19880815	JP 1987-27194	19870210
PRIORITY APPLN. INFO.:			JP 1986-210725	A 19860909
			JP 1987-27194	A 19870210

OTHER SOURCE(S): MARPAT 109:73459
 GI



AB The title compds. (I: R1 = H, Me, Et; R2 = CN, Me3Si, Me3SiCH2O2C, Cl-4 alkylthio, cyclopropyl; X = H, halo; Q = Q1-Q4) were prepared as herbicides. 2-[7-Fluoro-2H-1,4-benzoxazin-3(4H)-on-6-yl]-4,5,6,7-tetrahydro-2H-isoindol-1,3-dione was refluxed 30 min with K2CO3 in MeCN. The solution was cooled to 5°, ClCH2CN was added and the mixture was refluxed 3 h to give I (R1 = H, R2 = CN, Q = Q1, X = F). Several I at 0.06 kg/ha gave complete control of Echinochloa oryzicola, Cyperus difformis, and Monochoria vaginalis while leaving rice unaffected.

IT 115614-83-0P 115614-88-5P

L4 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1987:5080 CAPLUS
 DOCUMENT NUMBER: 106:5080
 TITLE: Preparation of piperazines as psychotropics
 PATENT ASSIGNEE(S): Duphar International Research B. V., Neth.
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JXKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

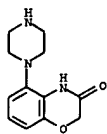
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61152655	A2	19860711	JP 1985-285841	19851220
EP 189612	A1	19860806	EP 1985-202085	19851216
EP 189612	B1	19921104		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 81975	E	19921115	AT 1985-202085	19851216
DK 8505860	A	19860622	DK 1985-5860	19851217
AU 8551391	A1	19860626	AU 1985-51391	19851218
AU 588015	B2	19890907		
ZA 8509663	A	19860827	ZA 1985-9663	19851218
ES 550104	A1	19861216	ES 1985-550104	19851218
CA 1271475	A1	19900710	CA 1985-497977	19851218
IL 77395	A1	19910816	IL 1985-77395	19851219
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			EP 1985-202085	A 19851216
			US 1985-810094	B1 19851218
			US 1988-161240	B1 19880218
			US 1988-268886	B1 19881108
			US 1990-471694	B1 19900126
			US 1990-593280	B1 19901005
			US 1991-802715	B1 19911206
			US 1993-3683	B1 19930113

GI For diagram(s), see printed CA Issue.

AB The title compds. (I: R1 = alkyl, cycloalkyl, alkoxyalkyl, etc.; p = 0-3; R2 = alkyl; n and q = 0 or 1; R3 = alkylidene, oxo, thioxo, etc.; m = 0-2; A = 5-7 member ring containing 1-3 O, S, or N), useful as psychotropics, are prepared. Thus, 1-[5-(1,4-benzodioxanyl)]piperazine-HCl was prepared by treating 5-amino-1,4-benzodioxane with bis(2-chloroethyl)amine-HCl. No pharmacol. activities are described.

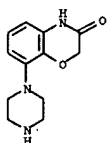
IT 105684-84-2P 105684-87-5P 105685-33-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as psychotropic)
 RN 105684-84-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 5-(1-piperazinyl)-, monohydrochloride (9CI)
 (CA INDEX NAME)

L4 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STM (Continued)



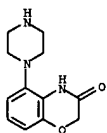
● HCl

RN 105684-87-5 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)-, monohydrochloride (9CI)
 (CA INDEX NAME)



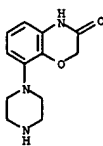
● HCl

RN 105685-33-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 5-(1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 105685-36-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 8-(1-piperazinyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 35 OF 35 CAPLUS COPYRIGHT 2005 ACS on STM (Continued)



①

11

ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13 14 15 16

chain bonds :

9-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-16 13-14 14-15
15-16

exact/norm bonds :

5-7 6-10 7-8 8-9 9-10 9-11 12-13 12-16 13-14 14-15 15-16

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

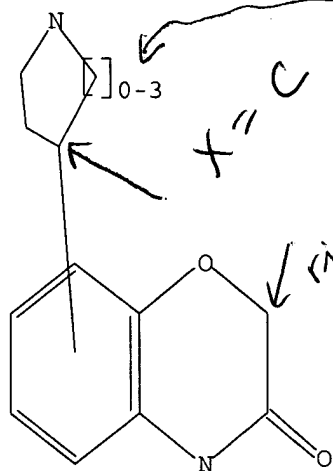
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L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



$q = 1-3$
 not searched
 0-3

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 16:07:15 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1713 TO ITERATE

58.4% PROCESSED 1000 ITERATIONS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

4 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 31778 TO 36742

<03/01/2005>

Habte

PROJECTED ANSWERS: 4 TO 294

L2 4 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 16:07:26 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 34893 TO ITERATE

100.0% PROCESSED 34893 ITERATIONS

78 ANSWERS

SEARCH TIME: 00.00.01

L3 78 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

161.54

FILE 'CAPLUS' ENTERED AT 16:07:31 ON 01 MAR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 1 Mar 2005 VOL 142 ISS 10

FILE LAST UPDATED: 28 Feb 2005 (20050228/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 2 L3

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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:41636 CAPLUS

DOCUMENT NUMBER: 140:423696

TITLE: Preparation of phenylaminopyrimidines useful as

inhibitors of JAK and other protein kinases

INVENTOR(S): Bethiel, Randy S.; Ludeboer, Mark

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 59 pp.

CODEN: USXXCO

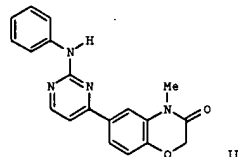
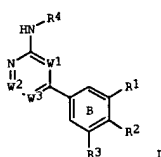
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

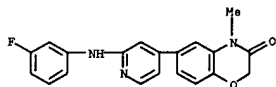
PATENT INFORMATION:

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WO 2004041814	A1	20040521	WO 2003-US35163	20031104
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, HL, HR, NE, NG, SN, TD, TG				
PRIORITY APPL. INFO.: US 2002-423579P F 20021104				
OTHER SOURCE(S): MARPAT 140:423696				
GI				

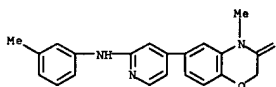


AB The title compds. [I; W1 = N, CH; W2 = N, C(U)PRU; W3 = N, C(V)QRV; p, q = 0-1; RU, RV = R, Ar1; U, V = a bond, alkylidene, etc.; R = H, alkyl, etc.; Ar1 = 5-7 membered (un)saturated monocyclic ring having 0-3 heteroatoms, 8-12 membered (un)saturated bicyclic ring having 0-5 heteroatoms; R1 and R2 together and fused to ring B form a cyclic moiety selected from benzoxazine, quinoxaline, etc.; R3 = halo, QR, QNCO, QNNO2, QNAr1; R4 =

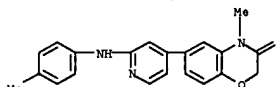
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



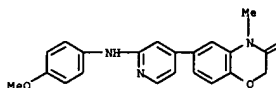
RN 692246-55-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-methyl-6-[2-((3-methylphenyl)amino)-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 692246-57-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-methyl-6-[2-((4-methylphenyl)amino)-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 692246-59-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((4-methoxyphenyl)amino)-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

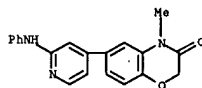


RN 692246-61-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3,5-dimethylphenyl)amino)-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Ar1, Ar2, Ar3, T = alkylidene chain wherein one methylene unit of T is optionally replaced by CO, CO2, COCO, etc.; Q = alkylidene chain wherein one methylene unit of Q is optionally replaced by CO, CO2, COCO, etc.; n = 0-1, useful in the treatment of various protein kinase mediated disorders, were prepd. The general procedures for prepn. of the compds. I were described. The compds. I such as II showed Ki's of <1.0 μM in the JAK3 inhibition assay, and Ki's of <1.0 μM in the JNK3 inhibition assay. The pharmaceutical compn. comprising the compd. I is claimed.

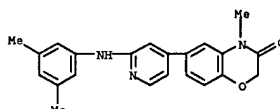
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of phenylaminopyrimidines useful as inhibitors of JAK and other protein kinases)
RN 692246-51-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 4-methyl-6-[2-((phenylamino)-4-pyridinyl)-9CI] (CA INDEX NAME)

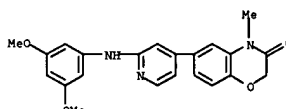


RN 692246-53-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-fluorophenyl)amino)-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

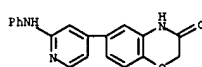
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



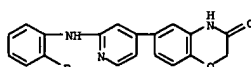
RN 692246-63-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3,5-dimethoxyphenyl)amino)-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 692246-65-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((phenylamino)-4-pyridinyl)-9CI] (CA INDEX NAME)

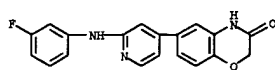


RN 692246-67-6 CAPLUS
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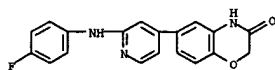


RN 692246-69-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-fluorophenyl)amino)-4-pyridinyl]-9CI (CA INDEX NAME)

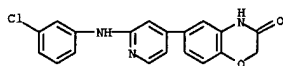
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



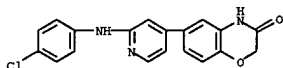
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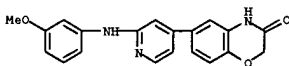
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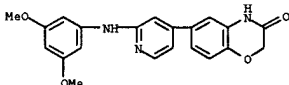
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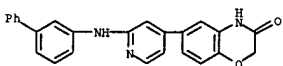
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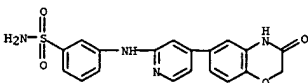
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



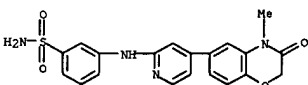
RN 692246-88-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(1,1'-biphenyl)-3-ylamino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



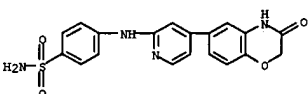
RN 692246-90-5 CAPLUS
CN Benzenesulfonamide, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



RN 692246-92-7 CAPLUS
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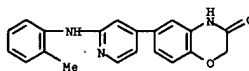
RN 692246-94-9 CAPLUS
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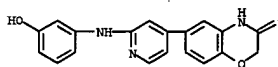
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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

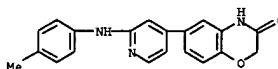
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CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(2-methylphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



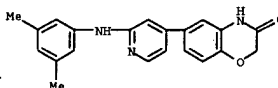
RN 692246-81-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)



RN 692246-83-6 CAPLUS
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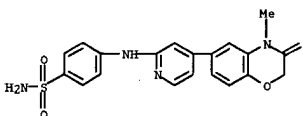
RN 692246-84-7 CAPLUS
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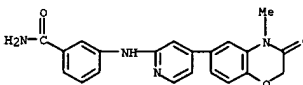
RN 692246-86-9 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethoxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

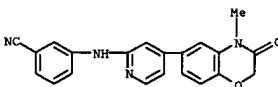
RN 692246-96-1 CAPLUS
CN Benzenesulfonamide, 4-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



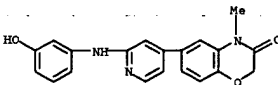
RN 692246-98-3 CAPLUS
CN Benzenesulfonamide, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



RN 692247-00-0 CAPLUS
CN Benzonitrile, 3-[[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



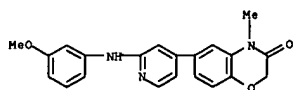
RN 692247-02-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)



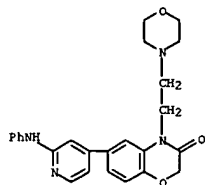
RN 692247-04-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-methyl- (9CI) (CA INDEX NAME)

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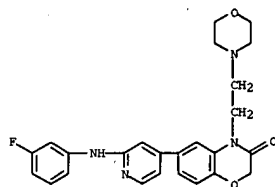
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 692247-06-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[2-(4-morpholinyl)ethyl]-6-[2-(phenylamino)-4-pyridinyl]- (9CI) (CA INDEX NAME)



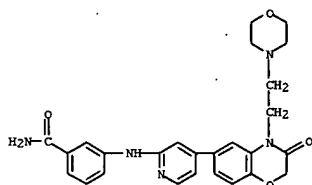
RN 692247-08-8 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



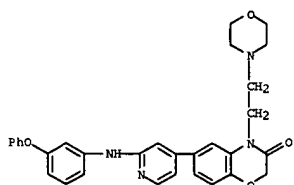
RN 692247-10-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 692247-14-6 CAPLUS
 CN Benzamide, 3-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)

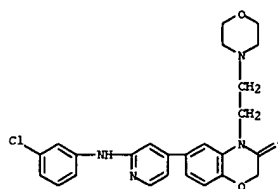


RN 692247-15-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 4-[2-(4-morpholinyl)ethyl]-6-[2-[(3-phenoxyphenyl)amino]-4-pyridinyl]- (9CI) (CA INDEX NAME)

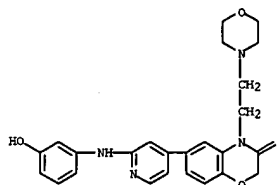


RN 692247-16-8 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

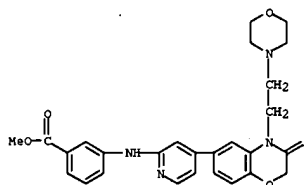
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



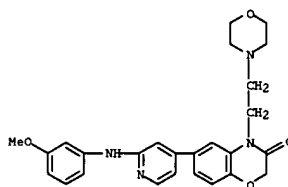
RN 692247-12-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



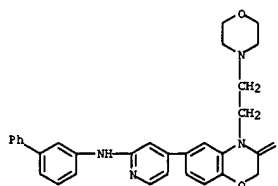
RN 692247-13-5 CAPLUS
 CN Benzoic acid, 3-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



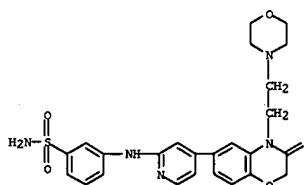
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 692247-17-9 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(1,1'-biphenyl)-3-ylamino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

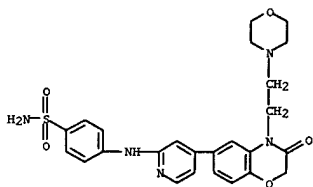


RN 692247-18-0 CAPLUS
 CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)

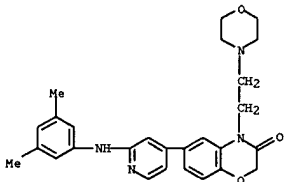


RN 692247-19-1 CAPLUS
 CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-4-[2-(4-morpholinyl)ethyl]-3-oxo-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)

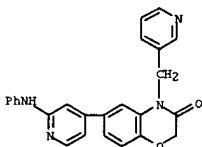
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



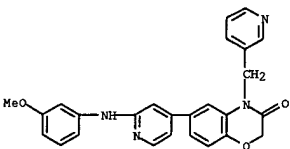
RN 692247-20-4 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



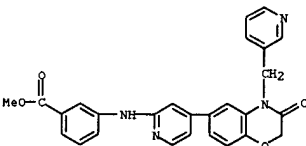
RN 692247-21-5 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-(phenylamino)-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



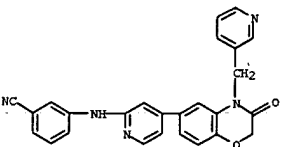
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 692247-26-0 CAPLUS
 CN Benzoic acid, 3-[[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

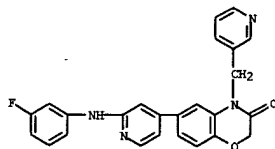


RN 692247-27-1 CAPLUS
 CN Benzonitrile, 3-[[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)

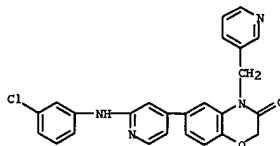


RN 692247-28-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(1,1'-biphenyl)-3-ylamino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

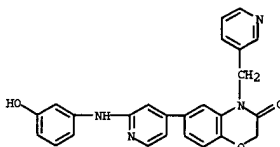
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 692247-22-6 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



RN 692247-23-7 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

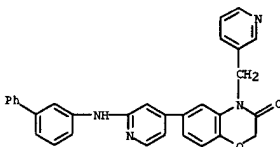


RN 692247-24-8 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-hydroxyphenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

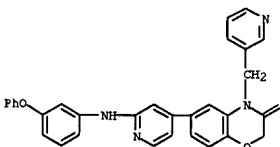


RN 692247-25-9 CAPLUS

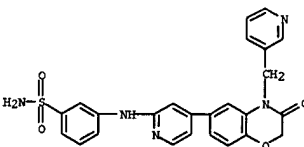
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



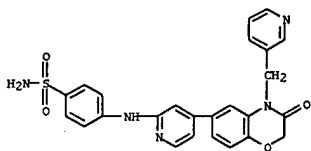
RN 692247-29-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-phenoxypheyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



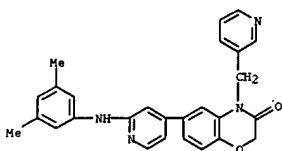
RN 692247-30-6 CAPLUS
 CN Benzenesulfonamide, 4-[[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



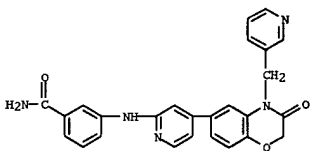
RN 692247-31-7 CAPLUS
 CN Benzenesulfonamide, 4-[[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



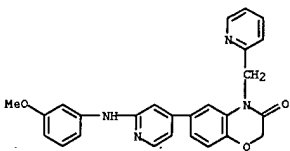
RN 692247-32-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



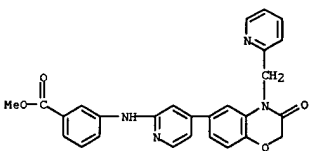
RN 692247-33-9 CAPLUS
CN Benzamide, 3-[[4-[3,4-dihydro-3-oxo-4-(3-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



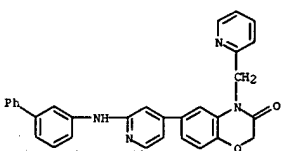
RN 692247-34-0 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-(phenylamino)-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



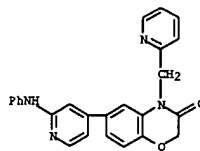
RN 692247-38-4 CAPLUS
CN Benzoic acid, 3-[[4-[3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



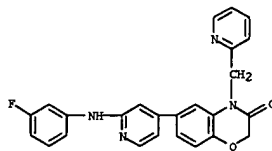
RN 692247-39-5 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(1,1'-biphenyl)-3-ylamino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



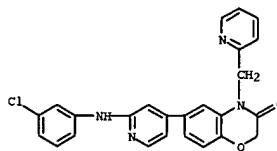
RN 692247-40-8 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-phenoxyphenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



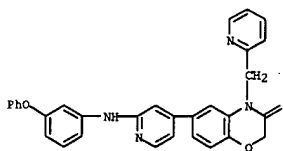
RN 692247-35-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-fluorophenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



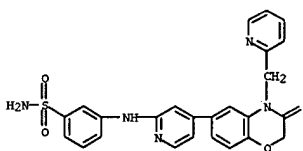
RN 692247-36-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-chlorophenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



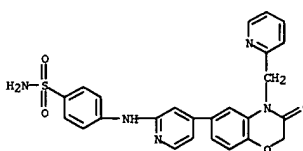
RN 692247-37-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3-methoxyphenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



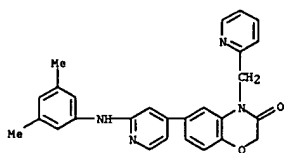
RN 692247-41-9 CAPLUS
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



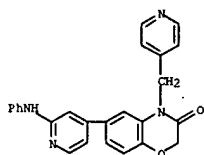
RN 692247-42-0 CAPLUS
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-3-oxo-4-(2-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



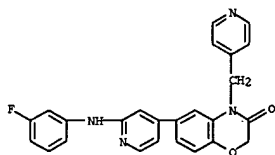
RN 692247-43-1 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-[(3,5-dimethylphenyl)amino]-4-pyridinyl]-4-(2-pyridinylmethyl)- (9CI) (CA INDEX NAME)



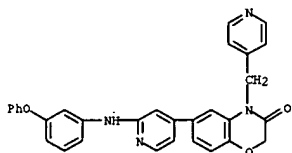
RN 692247-44-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-(phenylamino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



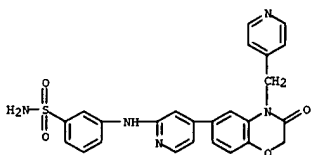
RN 692247-45-3 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-fluorophenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



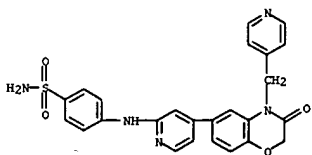
RN 692247-46-4 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-chlorophenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



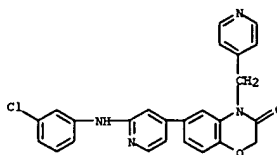
RN 692247-50-0 CAPLUS
CN Benzenesulfonamide, 3-[[4-[3,4-dihydro-3-oxo-4-(4-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



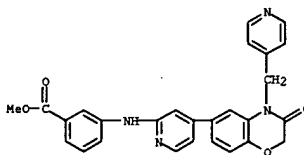
RN 692247-51-1 CAPLUS
CN Benzenesulfonamide, 4-[[4-[3,4-dihydro-3-oxo-4-(4-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]- (9CI) (CA INDEX NAME)



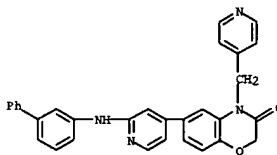
RN 692247-52-2 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3,5-dimethylphenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



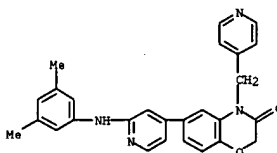
RN 692247-47-5 CAPLUS
CN Benzoic acid, 3-[[4-[3,4-dihydro-3-oxo-4-(4-pyridinylmethyl)-2H-1,4-benzoxazin-6-yl]-2-pyridinyl]amino]-, methyl ester (9CI) (CA INDEX NAME)



RN 692247-48-6 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((1,1'-biphenyl)-3-ylamino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



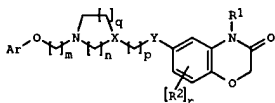
RN 692247-49-7 CAPLUS
CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[2-((3-phenoxyphenyl)amino)-4-pyridinyl]-4-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)



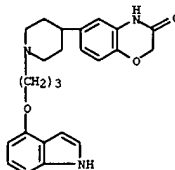
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:332196 CAPLUS
 DOCUMENT NUMBER: 136:355241
 TITLE: Preparation of benzoxazinones as antidepressants and anxiolytics
 INVENTOR(S): Johnson, Christopher Norbert; Rami, Harshad Kantilal; Stemp, Geoffrey; Thewlis, Kevin; Thompson, Mervyn; Vong, Antonio Kuok Keong
 PATENT ASSIGNEE(S): Smithkline Beecham P.L.C., UK
 SOURCE: PCT Int. Appl., 97 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034754	A2	20020502	WO 2001-EP12344	20011022
WO 2002034754	A3	20020711		
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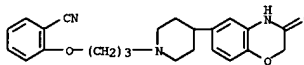
PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 136:355241
 GI



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 AB The title compds. [1; Ar = (un)substituted Ph, naphthyl, a monocyclic or a bicyclic heteroarom. group; when Ar = Ph or a monocyclic heteroarom. group, substituents positioned ortho to one another may be linked to form a 5-6 membered ring; R¹ = H, alkyl, alkenyl, alkynyl, arylalkyl; R² = halo, alkyl, CN, CF₃, alkanoyl, alkoxy, OH; X = CH, N; Y = a single bond, O, CO; p = 0-2; r = 0-3; m = 2-4; n, q = 1-2], useful as medicaments for various CNS disorders, including depression and/or anxiety, were prepared Thus, reacting 6-(4-piperidinyl)oxy-4H-benzo[1,4]oxazin-3-one.HCl with 4-H-indolylalkoxyacetaldehyde in the presence of NaBH(OAc)₃ in 1,2-dichloroethane afforded 63% 1 (Ar = 4-indolyl; R¹ = H; X = CH; Y = O; p = 0; q = 1; n, m = 2; r = 0]. All compds. 1 tested according to the radioligand binding assay were found to have pK_i values > 6.0 at 5-HT_{1A} receptors.
 IT 420785-52-OP 420785-53-1P 420785-54-2P
 420785-55-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzoxazinones as antidepressants and anxiolytics)
 RN 420785-52-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-[3-(1H-indol-4-yloxy)propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

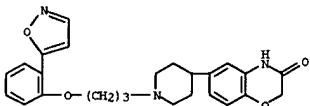


RN 420785-53-1 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[3-[4-(3,4-dihydro-3-oxo-2H-1,4-benzoxazin-6-yl)-1-piperidinyl]propoxy]- (9CI) (CA INDEX NAME)

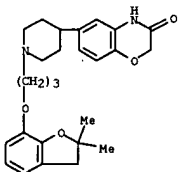


RN 420785-54-2 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-[3-[2-(5-isoxazolyl)phenoxy]propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

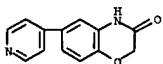
L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 420785-55-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-[1-[3-[(2,3-dihydro-2,2-dimethyl-7-benzofuranyl)oxy]propyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



IT 420786-59-0P, 6-(4-Pyridyl)-4H-benzo[1,4]oxazin-3-one
 420786-60-3P, 6-(4-Piperidinyl)-4H-benzo[1,4]oxazin-3-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of benzoxazinones as antidepressants and anxiolytics)
 RN 420786-59-0 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(4-pyridinyl)- (9CI) (CA INDEX NAME)



RN 420786-60-3 CAPLUS
 CN 2H-1,4-Benzoxazin-3(4H)-one, 6-(4-piperidinyl)- (9CI) (CA INDEX NAME)

